↑ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Service Manual

Sec.1 Operating Instructions

Sec.2 Service Information

Sec.3 Maintenance / Disassembly Procedures

& Mechanical Adjustments

Sec.4 Electrical Adjustments

Sec.5 Block Diagrams

Sec.6 Schematic Diagrams

Sec.7 Circuit Board Diagrams

Sec.8 Exploded Views &

Replacement Parts List

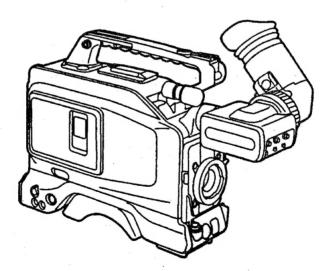
Digital Camera Recorder

AJ-D215P/HE

Digital Video Interface Board

AJ-YAD210P

AJ-D200 Revision Service Manual This Service Manual contains the AJ-D200 up-date service information's.



Specifications

[GENERAL]

Power supply:

DC12 V (10.5V to 17.0V)

Power consumption: 16W (main unit including viewfinder)

Operating ambient temperature:

32°F to 104°F (0°C to 40°C)

Storage ambient temperature:

-4°F to 140°F (-20°C to 60°C)

Operating ambient humidity:

Less than 80% (relative humidity)

Continuous operation time:

Approx. 120 minutes

(with Anton Bauer Trimpack 14, continuous recording time)

Dimensions

 $(W \times H \times D)$:

 $4-15/16" \times 11-1/2" \times 13-5/16" (126 \times 292 \times 337 \text{ mm})$

Weight:

7.7 lbs (3.5 kg) for main unit only

13.0 lbs (5.9 kg) for with NP-1 battery, viewfinder, Fujinon 14 \times lens,

184-minute tape

[CAMERA]

Image sensor:

1/3" IT-type CCD with on-chip lens (pixel shift system) ×3

Pixels:

542 (H) × 492 (V)

Horizontal drive frequency:

11.25 MHz

Sensitivity:

2000 lux, f/5.6 Minimum illumination: 5 lux (f/1.4 +18 dB)

S/N ratio:

60 dB (TYP)

Horizontal resolution: Approx. 500 lines (center)

Vertical resolution:

400 lines

Sampling frequency: 13.5 MHz/27 MHz Shutter speeds:

1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000

Gain selection:

0/6/12 dB or 0/9/18 dB

Lens mount:

1/3" bayonet mount

Color separation optical system:

Prism system (f/1.4)

Registration error:

Less than 0.03% (full range, excluding lens distortion)

ND filter:

1/16 ND, manual ON/OFF setting enabled by slide switch

[VIEWFINDER]

Display tube:

1.5" high-resolution monochrome tube

Horizontal resolution: 600 lines (center)

External controls:

BRIGHT, CONTRAST, PEAKING controls,

TALLY ON/OFF, ZEBRA ON/OFF, CHARACTER ON/OFF switches

[VTR] The video and audio performance specifications apply for a tape which has been recorded on this unit and played back on a standard player (ANALOG COMPONENT OUT).

Tape speed:

33.8201 mm/sec

Recording/playback time:

Approx. 184 min. (*using AJ-5P92LP)

*For AJ-5P92LP cassette tapes, use a VTR supporting DVCPRO (25

Mbps) 184 minute tapes.

FF/REW time:

Less than 8 min. (using AJ-5P92LP)

Video signal band:

Brightness = 0 Hz to 5.75 MHz, +1.0 dB/-3.0 dB

S/N ratio:

55 dB

Linearity: Y/C delay: Less than 2% Within 30 ns

Audio sampling frequency:

48 kHz (synchronized with video)

Quantizing:

16 bits/sample

Frequency response: 20 Hz to 20 kHz, +1.0 dB/-1.5 dB (at reference level)

Distortion:

Less than 0.2% (at 1 kHz, operating level) Less than -65 dB (between channels, at 1 kHz)

Crosstalk: Wow and flutter:

Below measurable limits

Headroom:

20 dB

[CONNECTORS]

INPUT

FRONT MIC:

Phantom +48V (built-in microphone), -60 dBu, balanced, 3 kΩ

(-60, -50 or -40 dBu setting possible on menu)

AUDIO IN CH1/CH2 (XLR, 3P):

–60, –50 or –40 dBu setting possible on menu, balanced, 10 k Ω

Internal DIP switch setting: Phantom 48V output possible line (-6/0/+4 dBu) switchable

OUTPUT

AUDIO OUT CH1/CH2 (Phono pin jack):

-6 dBu, unbalanced, low impedance output

HEADPHONE OUT:

Stereo mini jack

VIDEO OUT (BNC):

1.0 Vp-p, 75 Ω

S-VIDEO OUT:

Y signal = 1.0 Vp-p, 75 Ω

C signal = 0.286 V_{P-P} (burst), 75 Ω

OTHER

DC IN (XLR, 4P)

LENS (12P)

DVCPRO interface connector (option):

Complies with IEEE 1394-1995 standard

[ACCESSORIES]

1.5" viewfinder

Microphone (attached to main unit) Battery holder (attached to main unit)

Battery mounting connector and screw supporting Sony-made battery (NP-1B)

Specifications

[GENERAL]

Power supply:

DC12 V (10.5 V to 17.0 V)

Power consumption: 18 W (main unit including viewfinder)

Operating ambient temperature:

0°C to 40°C

Storage ambient temperature:

-20°C to 60°C

Operating ambient humidity:

Less than 80% (relative humidity)

Continuous operation time:

Approx. 100 minutes

(with Anton Bauer Trimpack 14, continuous recording time)

Dimensions

 $(W \times H \times D)$:

 $126 \times 292 \times 337 \text{ mm}$

Weight:

3.7 kg for main unit only

6.1 kg for with NP-1 battery, viewfinder, Fujinon 14× lens, 184-minute

tape

[CAMERA]

Image sensor:

1/3" IT-type CCD with on-chip lens (pixel shift system) ×3

Pixels:

 $542 (H) \times 584 (V)$

Horizontal drive frequency:

11.25 MHz

Sensitivity:

2000 lux, f/5.6 Minimum illumination: 5 lux (f/1.4 +18 dB)

S/N ratio:

58 dB (TYP)

Horizontal resolution: Approx. 500 lines (centre)

Vertical resolution:

500 lines

Sampling frequency: 13.5 MHz/27 MHz

Shutter speeds:

1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000

Gain selection:

0/6/12 dB or 0/9/18 dB

Lens mount:

1/3" bayonet mount

Colour separation optical system:

Prism system (f/1.4)

Registration error: ND filter:

Less than 0.03% (full range, excluding lens distortion) 1/16 ND, manual ON/OFF setting enabled by slide switch

[VIEWFINDER]

Display tube:

1.5" high-resolution monochrome tube

Horizontal resolution: 600 lines (centre)

External controls:

BRIGHT, CONTRAST, PEAKING controls,

TALLY ON/OFF, ZEBRA ON/OFF, CHARACTER ON/OFF switches

[VTR] The video and audio performance specifications apply for a tape which has been recorded on this unit and played back on a standard player (ANALOG COMPONENT OUT).

Tape speed:

33.8539 mm/sec

Recording/playback time:

Approx. 184 min. (*using AJ-5P92LP)

*For AJ-5P92LP cassette tapes, use a VTR supporting DVCPRO (25

Mbps) 184 minute tapes.

FF/REW time:

Less than 8 min. (using AJ-5P92LP)

Video signal band:

Brightness = 0 Hz to 5.75 MHz, +1.0 dB/-3.0 dB

S/N ratio:

55 dB

Linearity:

Less than 2%

Y/C delay:

Within 50 ns

Audio sampling frequency:

48 kHz (synchronized with video)

Quantizing:

16 bits/sample

Frequency response: 20 Hz to 20 kHz, (+1.0 dB, -1.5 dB) (at reference level)

Distortion:

Less than 0.2% (at 1 kHz, operating level) Less than -65 dB (between channels, at 1 kHz)

Crosstalk: Wow and flutter:

Below measurable limits

[CONNECTORS]

INPUT

FRONT MIC:

Phantom +48V (built-in microphone), -60 dBu, balanced, 3 k Ω

(-60, -50 or -40 dBu setting possible on menu)

AUDIO IN CH1/CH2 (XLR, 3P):

–60, –50 or –40 dBu setting possible on menu, balanced, 10 k Ω

Internal DIP switch setting: Phantom 48V output possible line (-6/0/+4 dBu) switchable

OUTPUT

AUDIO OUT CH1/CH2 (Phono jack):

-6 dBu, unbalanced, low impedance output

HEADPHONE OUT:

Stereo mini jack

VIDEO OUT (BNC):

1.0 Vp-P, 75 Ω

S-VIDEO OUT:

Y signal = 1.0 Vp-p, 75 Ω

C signal = 0.3 V_{P-P} (burst), 75 Ω

OTHER

DC IN (XLR, 4P)

LENS (12P)

DVCPRO interface connector:

Complies with IEEE 1394-1995 standard

[ACCESSORIES]

1.5" viewfinder

Microphone (attached to main unit) Battery holder (attached to main unit)

Battery mounting connector and screw supporting Sony-made battery (NP-1B)

INTRODUCTION

This Service Manual contains the AJ-D215P, AJ-D215HE and AJ-YAD210P sections.

AJ-D215P and AJ-D215HE sections contain Operating Instructions, Service Information, Maintenance / Disassembly Procedures & Mechanical Adjustments, Electrical Adjustments, Block Diagrams, Schematic Diagrams, Circuit Board Diagrams and Exploded Views & Replacement Parts List sections.

AJ-YAD210P section contains Operating Instructions, Schematic Diagrams, Circuit Board Diagrams and Exploded Views & Parts List sections.

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SAFETY PRECAUTIONS

GENERAL GUIDELINES

- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are property installed.
- 3. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

- 1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\,\Omega$ and $5.2M\,\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

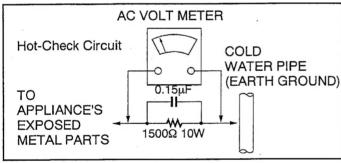


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

- Plug the AC cord directly into the AC outlet.
 Do not use an isolation transformer for this check.
- 2. Connect a 1.5k Ω , 10W resistor, in parallel with 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 millilamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
 Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded tip soldering iron to solder or unsolder ES
 devices
- Use only an anti-static solder removal device classified as "antistatic" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- Immediately before removing the protected material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
 - CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- 8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwize harmless mother such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

- 1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
- 2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.
- NOTE: It is important to use an accurate periodically calibrated high voltage meter.
- Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

■ DO NOT REMOVE PANEL COVER BY UN-SCREWING.

To reduce the risk of the electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Lithium Battery

Warning

The lithium battery in this equipment must only be replaced by qualified personnel. When necessary, contact your local Panasonic supplier.

"The lithium battery is a critical component (type number CR2032 or BR2032 manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge. It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacturer. They must be fitted in the same manner and location as the original battery, with the correct polarity connections observed.

Do not attempt to re-charge the old battery or reuse it for any other purpose. It should be disposed of in waste products destined for burial rather than incineration."

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

VAROITUS

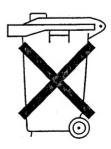
Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyypiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

indicates safety information.

Attention/Attentie

- Batteries are used for the main power source and memory back-up in the product.
 At the end of their useful life, you should not throw them away.
 Instead, hand them in as small chemical waste.
- Voor de primaire voeding en het reservegeheugen van het apparaat wordt gebruikgemaakt van een batterij.
 - Wanneer de batterij is uitgeput, mag u deze niet gewoon weggooien, maar dient u deze als klein chemisch afval weg te doen.



SECTION 1

OPERATING INSTRUCTIONS

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Precautions for Use

Avoid using this product in any location where it will be subjected to a great deal of vibration.

Ambient operating temperature

This product is designed to operate across a temperature range of 32°F to 104°F (0°C to +40°C). Adequate care should be taken when the product stet operated outside this range since it may develop differences in interchangeability or it may not function properly, and its active service life will be shortened.

3. Rain, humidity and dust

Minimize operation in the rain or when the furnidity level is high since condensation will form inside the product, thereby causing failures. Take care when using the product in very dusty locations since dust will find its way inside the product which, in particular, will cause a deterioration in its characteristics.

Do not point the lens in the camera section at the sun with the iris open. Neither should the viawlinder's eyepiece be pointed at the sun. Failure to heed this warning may cause malfunctioning inside the product.

Do not drop the product or subject it to impact. Failure to heed this warning will cause malfunctioning. Also, do not poke

objects inside the product while the cassette cover is in the raised position.

Strong electrical and magnetic fields

Bear in mind that using this product in an extremely strong electrical or magnetic field may result in interference with the picture on the screen or with the sound.

Features

Compact and lightweight integrated camera/VTR unit with low power consumption

Camera with high picture quality

- Digital processing ensures that the high picture quality remains stable during prolonged use.
- A time code reader/generator is built into the unit.
- Use of the built-in ND filter makes it possible to obtain the proper aperture even when shooting in outdoor 1/3-inch interchangeable lenses are featured to enable top-quality operation.

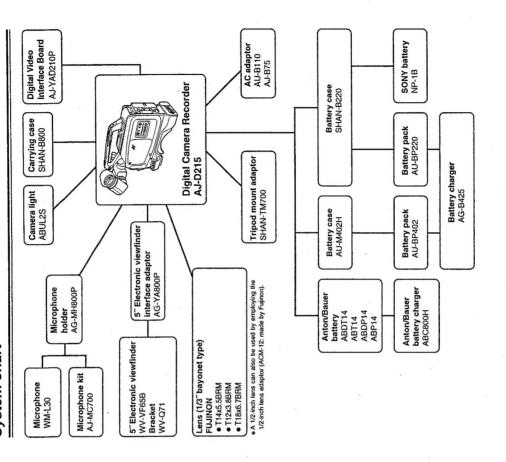
- Other features
- The on-screen menu setting facility makes it easy to set a large number of functions.
 Installation of optional digital video interface board (AJ-YAD210P: DVCPRO Terminal <compiles with IEEE
 - Long-time recording possible up to a full 184 minutes. (using AJ-5P92LP*) 1394-1995 standard>) supported.
- *For AJ-5P92LP cassette tapes, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.

 "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation. Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

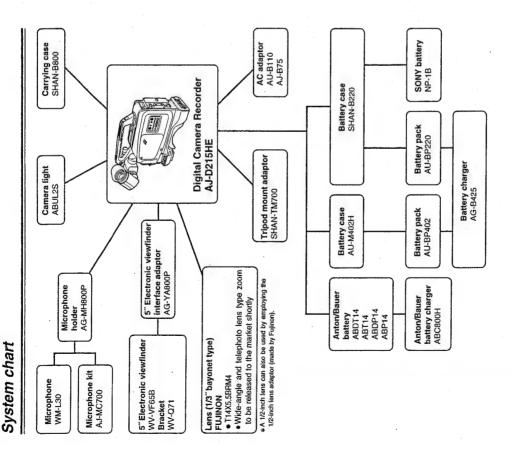
CAUTION-

This camera/VTR product supports "L" size DVCPRO tapes only. Do not use consumer DV tapes or tapes of any other size.

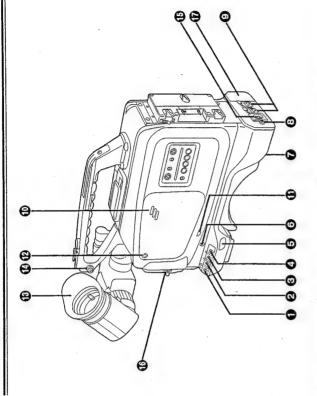
System chart



-9-



Parts and their functions



GAIN selector switch When the camera picture is too dark, increase the gain to brighten the picture by setting this switch.

The switch is normally kept at this The gain of the camera's video amplifier position. 6/9dB: OdB:

further details, refer to the menu items (on pages 48, 49 and 53).
12/18dB: The gain of the camera's video amplifier is increased at this position. Select 6 dB or 9 dB on the on-screen menu first. For

For further details, refer to the menu items (on pages 48, 49 and 53). The amount of noise also increases when the gain is increased at this position. Select 12 dB or 18 dB on the on-screen menu first.

is increased.

White balance selector switch MEMO: When the AUTO W/B (WHITE/BLACK)

BAL switch on the front panel is operated, the white balance is adjusted automatically, and the adjustment value Although the preset mode was set to is stored in the internal memory. PRST:

choice between three settings altogether on the on-screen menu. For further on the on-screen menu. For further details, refer to the menu items (on pages 48, 49 and 53). INDOOR when the unit was shipped from the manufacturing plant, there is a

FLUOR 4500K INDOOR 3200K OUTDOOR 5000K

This is the automatic tracking white balance mode. ATW:

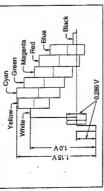
It may not be possible to attain the correct white balance under some types of lighting. Note:

-1-

OUTPUT selector switch CAM

The video signals shot by the camera The color bar signals are output are output. BAR:

It should be noted that these are not SMPTE Shown in the figure below are the output levels which are shown as color bar signals by this color bars.



switch of the is the ON/OFF selector SHUTTER switch
This is the ON electronic shutter.

The electronic shutter does not work at The electronic shutter is operational at this position. OFF ö

SELECT:This position is used to change the speed of the electronic shutter. This is a Each time it is 1/100→1/125→1/250→1/500→1/1000 →1/2000→1/4000→1/8000. When the operated, the shutter speed changes by one setting in the following sequence: switch is operated at 1/8000, the speed returns to the 1/100 setting. non-locking switch. this position.

G POWER switch

made operational. The power to the camera VTR is turned All the functions of the camera VTR are OFF: ö

This enables the settings of the camera's function switches to be checked in the viewfinder. MODE CHECK switch

causing the power to be turned off automatically to If trouble causes an excessively high current to flow inside the unit, the circuit breaker is tripped,

BREAKER switch

Upon completion of inspection inside or repair work on the unit, push this button to the "in" position. The power will be turned on again protect the unit.

provided that no trouble has occurred.

-8-

Earphone (PHONE) jack

00000

This is the earphone (stereo) jack for monitoring the sound. When an earphone is connected, no sound will be heard from the speaker

Audio input connectors

input signals can also be connected by setting an External microphones are connected here. internal switch to the corresponding position.

(9

D Speaker

 The sound from the speaker is automatically cut off when an earphone is connected to the The sound can be monitored through this speaker. PHONE jack.

The CH1 and CH2 sound is mixed and heard as the monitored sound.

(f) Audio monitor level control
This volume control is used to adjust the sound when it is being monitored.

MARK/CANCEL button

This is the SCENE data function switch. For further details, refer to the SCENE data function section (on pages 56 and 57).

Wiewfinder Wiewfinder

The shoulder belt is fastened here. Shoulder belt fitting

External DC input socket

When the adaptor is connected, power is automatically supplied from the external power This socket is for the external power (DC) supply. Connect an AC adaptor.

(ND filter ON/OFF switch

OFF: The ND filter is not used.
ON: The ND filter is used.

(DVCPRO interface connector installation area (option)

9999 99

BRIGHT (brightness) control
This is used to adjust the brightness of the images in the viewfinder. The images become brighter when it is turned clockwise. It has no effect on the camera's output signals.

TALLY ON/OFF switch

CHECK or retake) is taken while a back-up VTR is connected to the S-VIDEO OUT connector to

record pictures, the pictures played back by this

unit will be recorded on the back-up VTR.

S VIDEO OUT connector (BNC)

CAUTION:

Bear in mind that if any action that involves

S-VIDEO OUT connector (Y/C connector)

CAUTION:

AUDIO OUT connectors (pin jacks)

playing back a tape on this VTR (such as REC

of the The tally lamp on the front of the front The tally lamp on the viewfinder does not light. viewfinder lights. OFF: ä

in the A zebra pattern is displayed C ZEBRA (zebra pattern) ON/OFF switch viewfinder. ö

A zebra pattern is not displayed. OFF:

Bear in mind that if any action that involves playing back a tape on this VTR (such as REC CHECK or retake) is taken while a back-up VTR is

connected to the VIDEO OUT connector to record pictures, the pictures played back by this unit will

be recorded on the back-up VTR.

the Characters are displayed in This turns the character display ON or OFF. CHARACTER ON/OFF switch

the are not displayed in Characters viewfinder. viewfinder. OFF:

> Turning this control sharpens the outlines of the images in the viewfinder to facilitate focusing. The control has no effect on the camera's output

PEAKING control

The color temperature display in the ATW mode and the SCENE data MARK will appear even when the CHARACTER ON/OFF switch is at the OFF position.

- 6 -

This is used to adjust the contrast of the images in the viewlinder. It has no effect on the camera's

6 CONTRAST control

D Lens locking lever

After the lens has been attached to the lens mount, this lever is tightened up to lock the lens in

(D Lens mount (bayonet type)

This attaches the lens,

The connecting cord of the lens is connected here. For a detailed description of the lens to be used, read the instruction manual which D LENS connector (12-pin) accompanies the lens.

(B) AUTO W/B (WHITE/BLACK) BAL switch

automatically adjusted. When the white balance selector switch is set to the MEMO position and then the AUTO W/B BAL switch is operated, the adjustment value is stored in the unit's memory. Bear in mind that no operation results when the The white balance and black balance are selector switch is set to the ATW or PRST AWB:

UNTR START/STOP button

This is used to start or stop the recording.

TALLY lamp

This lights when the image shot by the camera is being recorded by the VTR. It lights or flashes in tandem with the TALLY lamp inside the viewfinder.

Microphone

This is a compact unidirectional microphone. A microphone with sharp directionality can be attached by replacing the microphone provided with the optional holder.

Accessory hole

A video light or other accessory is installed here.

Wiewfinder locking ring

When the ring is loosened, the viewfinder can be This is used to attach or remove the viewfinder. rotated by 90 degrees and pointed upward,

Eye cup

Eye cup unlocking lever

This is used to remove the eye cup. The eye cup is removed by moving the lever in the direction of the arrow and then sliding the eye cup free.

Viewfinder locking stopper

∢;

STOP OFFIS OPLAY 1

Function buttons

adjusted the position, tighten up the stopper to lock the viewfinder in place. This is used to adjust the viewfinder's position. To adjust the position, loosen the stopper and move After having the viewfinder to the left or right.

Shoulder belt fitting

The shoulder belt is fastened here.

 Diopter control (bottom panel)
 Adjust this to match your eyesight so that you can clearly see the images inside the viewfinder.

Eyeplece position adjustment ring

forward or backward when used in the unlocked status. Upon completion of the adjustment, set it to the LOCK status to lock the eyepiece in This enables the eyepiece position to be adjusted

(3) Cassette holder.
This is the slot where the cassette tape is loaded.

 PLAY button/lamp
 When this button is pressed, play is commenced
 and its lamp lights. When it is pressed again, the STILL mode is established, and when it is pressed once more, the PLAY mode is established again.

the tape has stopped traveling, the tape is rewound or fast forwarded at the normal

rewinding or fast forwarding speed in the E-E

■ REW (rewind)/FF (fast forward) buttons

 When the REW or FF button is pressed while

rises, and the cassette tape can be loaded or removed. The button does not work when the VTR is in the REC mode. To eject a tape in the REC mode, first establish the REC/PAUSE mode When this button is pressed, the cassette holder and then press the EJECT button. D EJECT button

the tape is being played, the tape is reviewed or cued at approximately 4.5 times the normal tape

When the REW or FF button is pressed while

STILL or REC PAUSE mode, the tape is

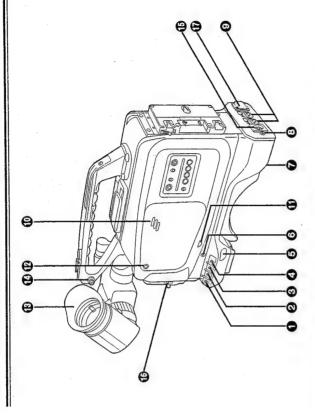
When the REW or FF button is pressed in the reviewed or cued at approximately 1 times the

STOP button

normal tape speed.

The tape stops traveling when this button is pressed. The button does not work during recording. To stop the tape during recording, first establish the REC/PAUSE mode and then press the STOP button. pressed.

Parts and their functions



- CH2

AUDIO LEVEL B FRONT

> 0000 00000

CTL RESET Berr (MENU CH 1

GAIN selector switch

The switch is normally kept at this position.

is increased at this position. Select 6 dB The gain of the camera's video amplifier or 9 dB on the on-screen menu first. For further details, refer to the menu items

For further details, refer to the menu dB or 18 dB on the on-screen menu first. items (on pages E-49, E-50 and E-54).

White balance selector switch

MEMO: When the AUTO W/B (WHITE/BLACK)
BAL switch on the front panel is operated, the white balance is adjusted automatically, and the adjustment value is stored in the internal memory.

Although the preset mode was set to details, refer to the menu items (on pages E-49, E-50 and E-54). OUTDOOR can be selected instead INDOOR when the unit was shipped using the on-screen menu. For further manufacturing the from PRST:

INDOOR 3200K OUTDOOR 5000K

This is the automatic tracking white balance mode. ATW:

Note:

It may not be possible to attain the correct white balance under some types of lighting.

When the camera picture is too dark, increase the gain to brighten the picture by setting this switch.

6/9dB: odB:

(I) MENU SET/OFF selector switch SET: Set to this position when displaying or

Audio level controls
 These are used to adjust the CH1 and CH2

recording levels.

This is used to set the menu items.

PAGE button

and recording the audio signals from

these microphones.

connectors (XLR 3P) on the rear pane

settings.

making changes to menu items. The switch is normally kept at this

position.

OFF:

(on pages E-49, E-50 and E-54).

12/18dB: The gain of the camera's video amplifier is increased at this position. Select 12 The amount of noise also increases when the gain is increased. <u>В</u>

-12-

FRONT: Set to this position when recording audio

microphone

the

from

signals

These switches are used to select the CH1 and

CH2 audio input.

S Audio input selector (MIC SELECT) switches

incoporated in the camera. Set to this position when connecting external microphones to the audio input

REAR:

This is used to select menu items. When the
MENU switch is at OFF, it functions as the reset
button for the CTL counter.

DOWN and UP buttons
 These are used to make changes to the menu

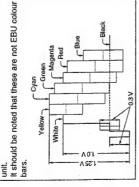
14× Power Zoom Lens (option)

OUTPUT selector switch

The video signals shot by the camera are outpu

The colour bar signals are output.

Shown in the figure below are the output levels which are shown as colour bar signals by this



SHUTTER switch

This is the ON/OFF selector switch of the electronic shutter.

The electronic shutter does not work at this position. ö

The electronic shutter is operational at this position.

Each time it is speed of the electronic shutter. This is a 1/100-1/125-1/250-1/500-1/1000 SELECT: This position is used to change the →1/2000→1/4000→1/8000. When the switch is operated at 1/8000, the speed operated, the shutter speed changes by one setting in the following sequence: returns to the 1/100 setting. non-tocking switch.

POWER switch

All the functions of the camera VTR are made operational. ë

The power to the camera VTR is turned OFF

MODE CHECK switch

This enables the settings of the camera's function switches to be checked in the viewfinder.

BREAKER switch

If trouble causes an excessively high current to flow inside the unit, the circuit breaker is tripped,

Upon completion of inspection inside or repair work on the unit, push this button to the "in" causing the power to be turned off automatically to The power will be turned on again provided that no trouble has occurred. protect the unit. position.

6-1

🖸 Earphone (PHONE) jack

the sound. When an earphone is connected, no sound will be heard from the speaker. This is the earphone (stereo) jack for monitoring

External microphones are connected here. Line input signals can also be connected by setting an internal switch to the corresponding position. Audio input connectors

Speaker

 The sound from the speaker is automatically cut off when an earphone is connected to the The sound can be monitored through this speaker. PHONE jack.

 The CH1 and CH2 sound is mixed and heard as the monitored sound.

Audio monitor level control

This volume control is used to adjust the sound when it is being monitored.

MARK/CANCEL button

further details, refer to the SCENE data function This is the SCENE data function switch. For section (on pages E-57 and E-58).

Viewfinder

The shoulder belt is fastened here. C Shoulder belt fitting

(B) External DC input socket

When the adaptor is connected, power is This socket is for the external power (DC) supply. automatically supplied from the external power Connect an AC adaptor.

(B) ND filter ON/OFF switch

OFF: The ND filter is not used. ON: The ND filter is used.

(DVCPRO interface connector

By connecting it to an AJ-D230H (digital VTR) using the specified cable, it becomes possible to digitally It then becomes possible to use it as a backup (Complies with IEEE1394-1995 standard) This connector is for digital AV interface. transfer AV signals from the AJ-D215H. recorder for the AJ-D230H.

This enables the automatic iris speed to be

Automatic iris control

inside. The speed is increasing by turning the control clockwise but take care not to turn it too far

This control must be adjusted when the lens has

been replaced or when a lens has been mounted since hunting (continuous cycling) will occur.

for the first time.

Removal of the rubber cap reveals the control

Breturn switch (RET, REC CHECK)
This switch is for checking a recording. When it is recording check function is activated, the recorded section is played back, and then the recording is pressed in the recording pause placed in the pause mode.

O VTR start/stop switch

This switch provides easy manual access to starting and stopping the VTR recording. When it is pressed once, recording starts; when it is pressed again, it stops. When using this lens, the VTR can be controlled by this switch or the VTR start/stop switch on the camera.

(A) side: The iris is adjusted automatically.

(M) side: Set to this position to adjust the iris

D Lens iris selector switch (IRIS)

D Lens cable (12-pin)
This cable is to be connected to the LENS connector.

This ring is turned to focus the lens. Focus ring

the power/manual zoom selector switch to SERVO and then pressing the power zoom control switch. The zoom speed differs depending on the force

with which the switch is pressed.

The zoom can be controlled electrically by setting

Power zoom control switch

To adjust the screen size, set the power/manual zoom selector switch to MANU, and turn this ring. Soom ring

Adjust this to fit the size of your hand.

And strap

- 13-

Viewfinder displays

D Iris ring

To adjust the iris, set the lens iris selector switch (IRIS) to M, and turn this ring.

Flange back adjustment ring
To adjust the flange back, loosen the flange back looking knob, and turn this ring. The ring must be adjusted when the lens has been replaced or when a lens has been mounted for the first time.

Macro ring
To take close-ups, set the lens all the way to the wide position, and turn this ring.

(B) Flange back locking knob
Use this knob to lock the flange back after it has been adjusted.

Power/manual zoom selector switch
When this switch is set to SERVO, the zoom can
be adjusted using the power zoom control switch.
When it is set to MANU, the zoom can be adjusted using the zoom ring. Also refer to the operating instructions accompanying the lens you have purchased.

LED displays

AUDIO (yellow): This is not used in this system.

TALLY (red):

STBY

O O AUDIO TALLY

This lights during recording. It flashes as the tape is approaching the recording position from unloading or when trouble has occurred.

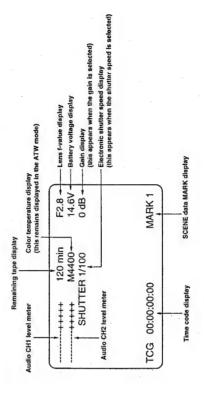
This is not used in this system. STBY (green): This lights when the camera gain is increased. GAIN (yellow): This flashes when the battery charge has dropped. BATT (yellow): This lights or flashes when trouble has occurred in the VTR. VTR (yellow):

Ę o

D A

O GAIN

Character displays



- These displays appear when the CHARACTER switch at the front of
 - the viewfinder is set to ON.

 Each individual display can be turned off by setting the corresponding When the mode check switch has been pressed, the current statuses are displayed regardless of whether the individual displays have been
- The color temperature display in the ATW mode and the SCENE data MARK will appear even when the CHARACTER ON/OFF switch is at the OFF position. set ON or OFF using the corresponding menu items or whether the CHARACTER switch is ON or OFF.

Error message displays

When an error occurs, an error message appears in the viewfinder.

There are two types of error messages: those which appear when the power is switched on, and those which appear during operation.

The tables given below indicate the causes and remedial action for the corresponding error messages.

Error messages which appear when the power is switched on

Error (Error display	Cause	Remedial action
BACKUP	ваттену	This appears when the internal clock battery Replace the unit's back-up battery, has run down. replacement procedure, refer to pag consult with your dealer.	Replace the unit's back-up battery. For the replacement procedure, refer to page 58, and consult with your dealer.
		Remarks: A flat back-up battery will interfere with the clock and opportunity. The BACKUP BATTERY EMPTY display will appear immediately after the back-up battery was replaced.	Remarks: A flat back-up battery will interfere with the clock and time code free run functions although all optor functions will remain unaffected. Replace the back-up battery at the earliest possible opportunity. The BACKIVP BATTERY EMPTY display will appear even when the power is turned back on immediately after the back-up battery was replaced. This is normal and not indicative of a malfunction.
EMPTY	MEMORY	This appears when garbage data in the built-in Proceed with flash memory needs to be collected. A special memory called a flash memory is used items. Refer to inside this unit. It contains all the mem yellings, white balance adjustment data and many other types of data. Due to the fact that this is a special memory, the old data no longer required when menu changes are made, for instance, are retained. Consequently, garbage memory contents such as these must be collected from time to time.	Proceed with garbage collection on the MAINTENANCE menu screen among the menu items. Refer to the menu items (on pages 48, 49 and 55).
		Remarks: This display appears well ahead of time so there immediately. The garbage collection processing done when there is a spare moment.	Remarks: This display appears well ahead of time so there is no need to panic and initiate garbage collection immediately. The garbage collection processing takes some time (about 1 minute) so it should be done when there is a spare moment.

Error messages which appear during operation

Error display	Cause	Remedial action
TOO BRIGHT ERROR	This appears when the white balance is to be adjusted (when the AUTO W/B BAL switch was operated) or when the screen is excessively bright.	Stop down the iris a little more, and adjust the white balance. If the error display remains, insert the electronic shutter or attach the ND filter.
ТОО БАЯК ЕЯВОЯ	This appears when the white balance is to be adjusted (when the AUTO W/B BAL switch was operated) or when the screen is excessively dark.	Open the iris a little more, increase the gain (if this is warranted by the subject brightness), and adjust the white balance. If the error display remains, direct some light onto the subject.
LENS UNIT ERROR	This appears when the lens cable has been disconnected or when the lens its control circuit has been damaged.	The cause is almost always a disconnected lens cable. If the display appears even when the cable is connected properly, consult with your dealer.
SELECT SW ERROR	This appears when the AUTO W/B BAL switch was operated with the white balance selector switch at a position other than MEMO.	Adjust the white balance (operate the AUTO WIB BAL switch) with the white balance selector switch at the MEMO position.
OUTPUT SW ERROR	This appears when the AUTO W/B BAL switch was operated with the OUTPUT switch at a position other than CAM.	Adjust the while balance (operate the AUTO W/B BAL switch) with the OUTPUT switch at the CAM position.
BLACK BAL ERROR	This points to a malfunction in the camera unit.	Consult with your dealer.
WHITE BAL ERROR TRY AGAIN	This appears when the white balance was not attained properly due to some condition or other.	If the TOOL BRIGHT ERROR, TOO DARK ERROP or LENS UNIT ERROR message has appeared, take the corresponding measure, and then by adjusting the white balance again. If the WHITE BAL ERROR TRY AGAIN message has appeared but the TOOR BRIGHT message has not appeared, proceed to attain the white balance again. If the display still appears even after two or three attentions.
Remarks: The above errors are The LENS UNIT ERRC	Remarks: The above errors are detected when the white balance is adjusted (when the AUTO W/B BAL switch has been operated). The LENS UNIT ERROR is also detected immediately after the power has been switched on.	ithe AUTO W/B BAL switch has been operated). been switched on.
SERVO	This appears when an unrecorded part of a tape is played back or at other times when the VTR servo lock is disengaged.	It is normal for this display to appear with unrecorded parts of tapes. If the display appears during the playback of an obviously recorded tape or during recording, this points is a malfunction. Consult with your dealer.
HUMID	This signifies that condensation has formed. Refer to page 63 where detailed instructions can be found.	Refer to page 63 where detailed instructions can be found.
POWER OFF	This is not an error message. It is a warning whe shortly.	This is not an error message. It is a warning which indicates that the power will be turned off very shortly.

Viewfinder displays

Error messages which appear during operation

Error display	Cause	Remedial action
TOO BRIGHT ERROR	This appears when the white balance is to be adjusted (when the AUTO W/B BAL switch was operated) or when the screen is excessively bright.	This appears when the white balance is to be Stop down the inis a little more, and adjusted the adjusted (when the AUTO WIB BAL switch was white balance. If the error display remains, operated) or when the screen is excessively insert the electronic shutter or attach the ND bright.
ТОО БАРК ЕРВОВ	This appears when the white balance is to be adjusted (when the AUTO W/B BAL switch was operated) or when the screen is excessively dark.	This appears when the white balance is to be Open the iris a little more, increase the gain (if adjusted (when the AUTO WIB BAL switch was this is warraned by the subject brightness), and adjusted (when the AUTO WIB BAL switch was the white balance. If the error display operated) or when the screen is excessively adjust the white balance. If the error display dark.
LENS UNIT ERROR	This appears when the lens cable has been The cause is almost always a disconnected ens disconnected or when the lens iris control circuit cable. If the display appears even when the has been damaged. cable is connected property, consult with your dealer.	This appears when the lens cable has been The cause is almost aiways a disconnected lens disconnected or when the lens inis control circuit cable. If the display appears even when the has been damaged. cable is connected property, consult with your dealer.
SELECT SW ERROR	This appears when the AUTO W/B BAL switch Adjust the white balance (operate the AUTO was operated with the white balance selector switch at a position other than MEMO.	This appears when the AUTO W/B BAL switch Adjust the white balance (operate the AUTO was operated with the white balance selector W/B BAL switch) with the white balance selector switch at a position other than MEMO.
OUTPUT SW ERROR	OUTPUT SW ERROR This appears when the AUTO W/B BAL switch Adjust the white balance (operate the AUTO was operated with the OUTPUT switch at a W/B BAL switch) with the OUTPUT switch at the position other than CAM.	Adjust the white balance (operate the AUTO W/B BAL switch) with the OUTPUT switch at the CAM position.
BLACK BAL ERROR	This points to a malfunction in the camera unit.	If the message "BLACK BAL ERROR" appears in the viewlinder when the power is turned on, perform the steps listed below.
Idia managama da t	1 18 the management (B) ACK DAT PEDICON.	March and the married for browner of con-

If the message "BLACK BAL ERROF" continually flashes on and off when the power is turned on: Confirm that the lens cable is properly connected. If the cable is disconnected, reconnected it. If "BLACK BAL ERROF" is displayed even though the cable is properly connected, consult your dealer.

2. If the message "BLACK BAL ERROR" appears once or twice when the power is turned on and then disappears a This indicates that the unit performed ABB (Auto Black Balance) processing when the power was turned on, and that the processing was successful when retried. The unit may be used as is.

If the message continues to appear even after two or three attempts, consult your dealer. Remarks:
The above errors are detected when the white balance is adjusted (when the AUTO W/B BAL switch has been operated).
The LENS UNIT ERROR is also detected immediately after the power has been switched on. WHITE BAL ERROR | This appears when the white balance was not | Change the iris setting (the brightness) slightly THY AGAIN | attained property due to some condition or and then ty again.

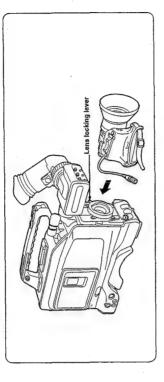
appears during the playback of an obviously recorded tape or during recording, this points to a malfunction. Consult with your dealer. This appears when an unrecorded part of a tape It is normal for this display to appear with is played back or at other times when the VTR unrecorded parts of tapes. If the display servo lock is disengaged. This is not an error message. It is a warning which indicates that the power will be turned off very shortly. Refer to page E-66 where detailed instruction can be found. This signifies that condensation has formed. Refer to page E-66 where detailed instructions can be found. POWER OFF HUMID

Preparations

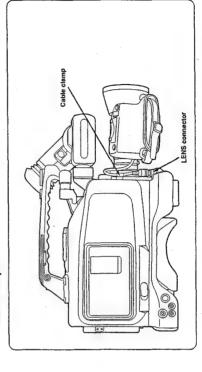
Attaching the peripheral units

Attaching the lens

Position the lens, insert it, and lock it in place using the lens locking



Connect the cord to the LENS connector, and secure it using the cable clamp.



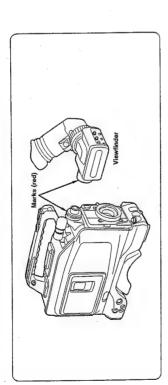
■ Refer to the operating instructions accompanying the tens for details on handling the lens.

■ Attach the lens cap to protect the unit when the lens has been Notes:

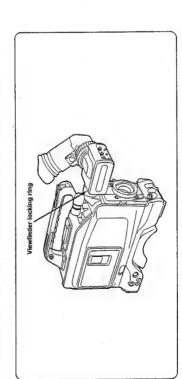
removed.

Mounting the viewfinder

Align the positions of the marks (red), and fit into place.

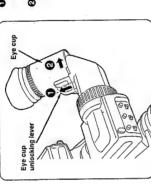


 $oldsymbol{2}$ Turn the viewfinder locking ring to lock the viewfinder into place.



The viewfinder can be turned by 90 degrees by loosening the locking ring.

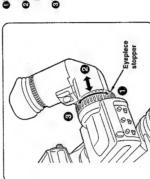
Removing the eye cup



• Move the eye cup unlocking lever is the direction indicated by the arrow.

Slide the eye cup in the direction indicated to remove it.

Adjusting the eyepiece position

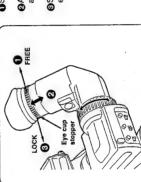


Set the eyepiece stopper to FREE.

Move the eyepiece toward the left or right to a position which affords the easiest viewing.

Tighten the eyepiece stopper.

Adjusting the eye cup position



Set the eye cup stopper to FREE.

@Adjust the eye cup by moving it toward you or away from you.

Set the eye cup stopper to LOCK to lock the eye cup in place.

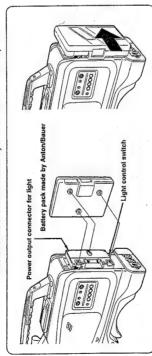
- 20 --

When using a battery pack made by Anton/Bauer

Before using the battery pack, charge it using the special battery charger made by Anton/Bauer. For the charging time and other details, refer to the operating instructions of the battery charger used.

T Attach the battery pack made by Anton/Bauer.

Insert it in the direction indicated by the arrow and slide it into place.



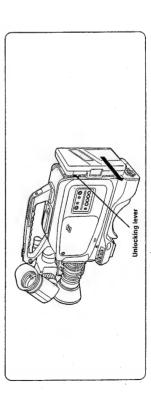
■ Provided on the battery holder made by Anton/Bauer are a power output connector for a light and a light control switch. A light can be easily attached. For details on lighting systems, consult an Anton/Bauer representative.

Set menu item 7. BATTERY (BATT.SELECT) to the battery which is to be used. 2

For further details, refer to the menu items (pages 48 to 50).

Remarks:

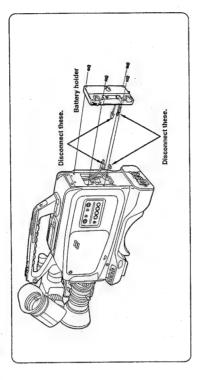
■ To remove the battery pack
While holding the unlocking lever on the battery holder all the way
down, slide the battery pack in the direction indicated by the arrow.



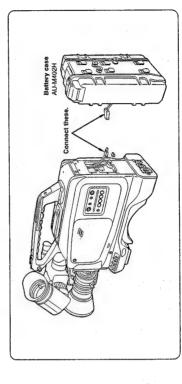
When using the AU-BP402 battery pack

Charge the AU-BP402 battery pack using the AG-B425 battery charger. It takes about an hour to charge the battery pack. For further details, refer to the operating instructions accompanying the AG-B425 battery charger.

Remove the battery holder.

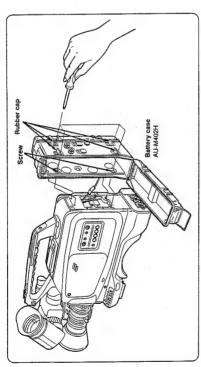


${\it 2}$ Connect the unit's cables to the AU-M402H battery case cables.



-21-

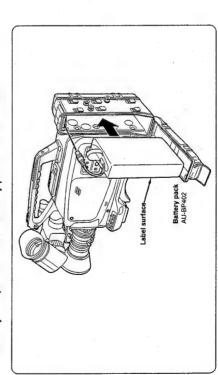
3 Mount the AU-M402H battery case onto the unit using a screwdriver.



Holes with the screws recessed inside can be seen when the cover is opened and the rubber caps are lifted. Tighten up these screws using a screwdriver so that the battery case is mounted onto the unit. Tighten the screws up all the way.

CAUTION: Do not pull the rubber caps with too much force.

Connect the plug of the battery pack to the connector inside the battery case, and install the battery pack inside the case.



CAUTION: The unit's power must be turned off before the plug is connected or disconnected.

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5 Set menu item 7. BATTERY (BATT.SELECT) to NiCd12V.

Menu item screen (viewfinder)

ا ا	: REC : DF	: NiCd12	
- MAIN FUNCTION -	RECRUN/FREERUN DF/NDF	SCENE DATA SAVE SCENE DATA UNDEL BATT, SELECT BACK TALLY	MENU INITIALIZE

For further details, refer to the menu items (pages 48 to 50).

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E-25

5 Set menu item 7. BATTERY (BATT.SELECT) to NiCd12V.

Menu Item screen (viewfinder)

- Malin FUNCTION TCG CLEAR
RECRUNFREERUN : REC
SCENE DATA SAVE
SCENE DATA SAVE
SCENE DATA UNDEL
- BATT. SELECT
BAGK TALLY
: ON
MENU INITIALIZE

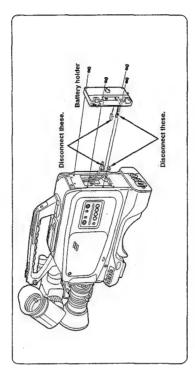
For further details, refer to the menu items (pages E-49 to E-51).

When using the NP-1B battery made by Sony

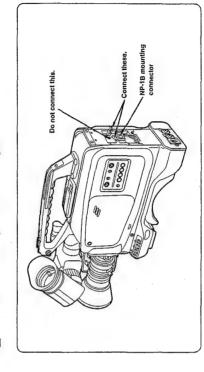
Charge the NP-1B battery using the special battery charger made by Sony.

For the charging time and other details, refer to the operating instructions accompanying the battery charger used.

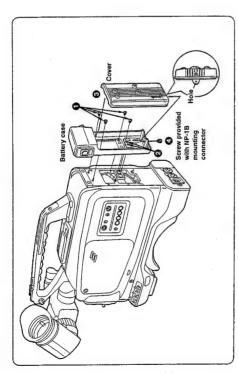
I Remove the battery holder.



${\it 2}$ Attach the accessory NP-1B mounting connector.



3 Mount the battery holder made by Sony

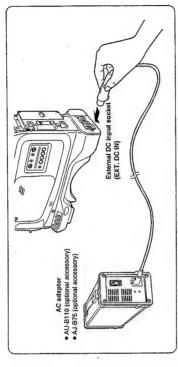


Before proceeding any further, remove the battery holder cover, Mount the battery case using the mounting screws, © Tighten the power contact screw.

- Olnsert the top of the cover in the direction indicated by the arrow.
- Align the hole at the bottom (metal part) of the cover with the hole at the bottom of the battery case and mount the battery holder using the screw provided with the NP-1B mounting connector.

(when using the AU-B110/AJ-B75 AC adaptor) When using an AC power source

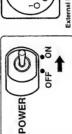
Connect the unit's external DC input socket to the DC OUT connector on the AU-B110/AJ-B75 AC adaptor.



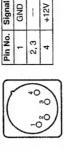
2 Turn on the AC adaptor's power.

3 Set the unit's POWER switch to the ON position.

Check the pin signals of the external DC input socket when an external power source other than the AU-B110/AJ-B75 AC adaptor is to be used.









+12V GND ر اع

External DC input socket

■ Priority is given to the power supplied from the AC adaptor when both a battery pack and AC adaptor have been connected.

Notes:

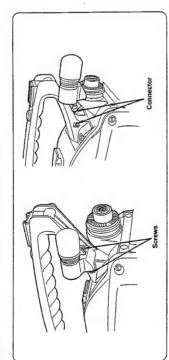
- When the AC adaptor is used, the low battery warning may appear depending on the BATT.SELECT menu setting. If this happens, it is recommended that the Ni-Cd12V setting be used for BATT.SELECT.
- When the AC adaptor is used, the AC adaptor's power must be turned on before the unit's POWER switch is set to the ON position. If the POWER switch is set to ON first, the unit may maifunction since the AC adaptor's output voltage increases slowly after the power has been turned on.

-27-

Attaching the microphone holder (option)

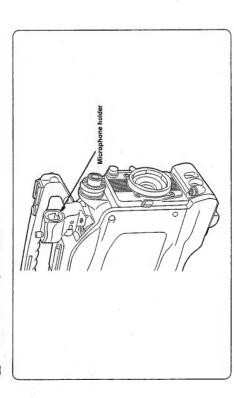
The AJ-MC700/WM-L30 or other optional microphone can be used in place of the microphone which accompanies the unit.

I Remove the microphone on the main unit.



Remove the two screws to remove the connector and then remove the microphone.

2 Attach the microphone holder.

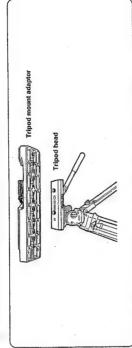


The microphone holder is attached by following the microphone removal procedure in reverse.

Mounting the unit onto a tripod

The tripod mount adaptor, which is sold separately, is used to mount the unit onto a tripod.

Attach the tripod mount adaptor to the tripod.

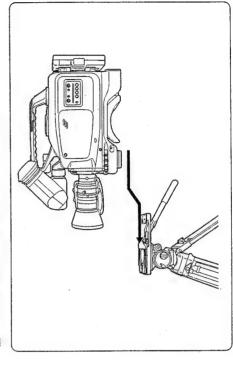


Take the center of gravity of the unit and tripod mount adaptor into consideration when selecting the hole for the attachment.

Also check that the diameter of the hole selected matches the diameter of the tripod head screw.

NOTE:

${\it 2}$ Mount the unit onto the tripod mount adaptor.



Slide the unit away from you along the groove until it clicks into position.

- 59 -

Disengaging the unit from the tripod mount adaptor



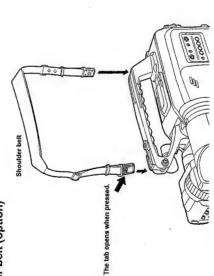
Move the black lever in the direction indicated by the arrow while holding down the red lever, and disengage the unit by sliding it toward you.

NOTE:

If the pin of the tripod mount adaptor fails to return to its original position after the unit has been disengaged, again move the black lever in the direction indicated by the arrow while holding down the red lever. This returns the pin to its former position.

Bear in mind that the unit cannot be mounted if the pin is left in the

Fastening the shoulder belt (option)



To release the shoulder belt, open the tabs at both ends and disengage.



NOTE: Check that the shoulder belt is securely fastened.

- 30 -

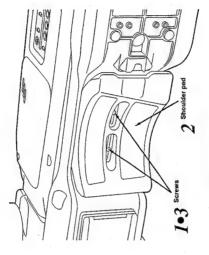
Adjusting the shoulder pad position

The shoulder pad can be adjusted by sliding it in the forward or backward direction from its center position (shipment position) by up to 15 mm on either side.

Adjust it to the position where you find it easiest to operate.

I Loosen the two screws.

- 2 Slide the shoulder pad back and forth until you find the optimum position.
- 3 Tighten the screws and secure the shoulder pad.

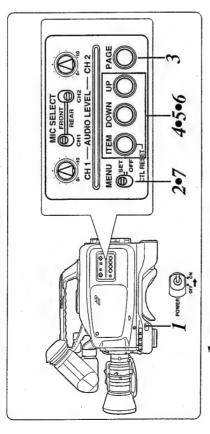


Bottom section

Setting the date and time

The first step to take after purchasing the unit is to set the date and

(With a DVCPRO VTR, the shooting date and time data is recorded separately from the images. In order for this data to be recorded correctly, first set the date and time.)



Set the POWER switch to ON.

 $\, Z \,$ The setting screen (MENU) appears in the viewfinder when the MENU SET/OFF selector switch is set to SET.

While monitoring the viewfinder, press the PAGE button until the TIME/DATE screen appears.

Setting screen (viewfinder)

(First setting screen for menu items)

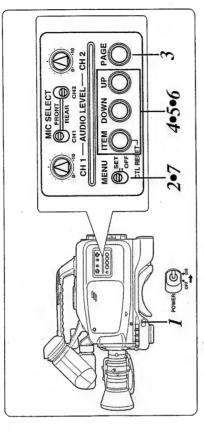
	- TIME/DATE -	↓ YEAR : 97	MONTH : 06	DAY : 13	HOUR : 10	MINUTE : 02		TIME/DATE SET	u		
		-			† —	7	daay	II pressing		-	_
(2000)	MAIN FUNCTION -		••	. 다		SAVE	UNDEL		NO:	IZE	
	- MAIN	 TCG CLEAR	RECRUN/FREERUN	JE/NDF		SCENE DATA SAVE	SCENE DATA UNDEL	BATT. SELECT	3ACK TALLY	MENU INITIALIZE	

Descriptions are also given in the menu items (on pages 48, 49 and 54).

-35-

Setting the date and time

The first step to take after purchasing the unit is to set the date and time. (With a DVCPRO VTR, the shooting date and time data is recorded separately from the images. In order for this data to be recorded correctly, first set the date and time.)



Set the POWER switch to ON.

The setting screen (MENU) appears in the viewfinder when the MENU SET/OFF selector switch is set to SET.

 ${\bf 3}$ While monitoring the viewfinder, press the PAGE button until the TIME/DATE screen appears.

Setting screen (viewfinder)

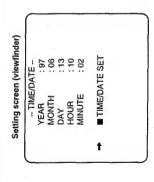
(First setting screen for menu items)

- TIME/DATE -	YEAR : 97	MONTH : 06	DAY : 13	HOUR : 10	MINUTE : 02		II TIME/DATE SET		
	t								
				t	Koon	proceing	the PAGE	button.	
\ \-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\		: REC				: DIGIT	NO:		
- MAIN FUNCTION -	₽ TCG CLEAR	RECRUN/FREERUN		SCENE DATA SAVE	SCENE DATA UNDEL	BATT, SELECT	BACK TALLY	MENU INITIALIZE	

Descriptions are also given in the menu items (on pages E-49, E-50 and E-55).

E-33

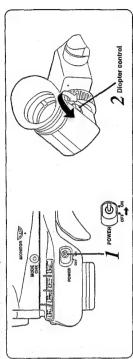
- $oldsymbol{\mathcal{4}}$ Set the date and time using the ITEM, UP and DOWN buttons.
- S Keep pressing the ITEM button until the arrow indicates "■ TIME/DATE SET."



- The date and time settings are entered when the UP or DOWN button is pressed.
- 7 Finally, set the MENU SET/OFF selector switch to OFF.

■ Adjusting the viewfinder

Adjusting the viewfinder diopter

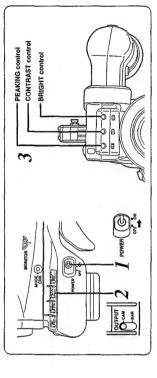


Set the POWER switch to ON.

An image now appears on the viewfinder.

 ${\cal Z}$ Turn the diopter control and adjust it so that the viewfinder image can be seen clearly.

Adjusting the viewfinder's brightness and contrast



Set the POWER switch to ON.

An image now appears on the viewfinder,

2 Set the OUTPUT switch to CAM.

3 Turn the viewfinder's BRIGHT and CONTRAST controls and adjust the brightness and contrast of the image.

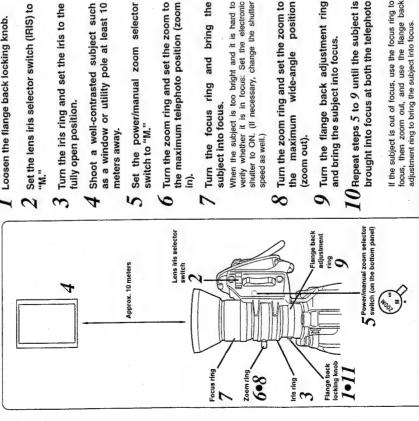
When the viewfinder's PEAKING control is turned, the image can be adjusted to be softer or sharper. If it is adjusted to be sharp, it will be easier to focus the lens.

-34 -

Adjusting the lens flange

The lens flange is adjusted when the tens falls to be focused at both the telephoto and wide-angle positions because it has been mounted for the first time or because it has been replaced.

This adjustment need be done only once provided that the lens is not replaced.



Loosen the flange back locking knob.

Set the lens iris selector switch (IRIS) to

Turn the iris ring and set the iris to the fully open position.

Shoot a well-contrasted subject such as a window or utility pole at least 10 meters away.

Set the power/manual zoom selector switch to "M." Turn the zoom ring and set the zoom to the maximum telephoto position (zoom Ē,

Turn the focus ring and bring the subject into focus.

When the subject is too bright and it is hard to verify whether it is in focus: Set the electronic shutter to ON. (If necessary, change the shutter speed as well.) Turn the zoom ring and set the zoom to maximum wide-angle position (zoom out). the

10 Repeat steps 5 to 9 until the subject is brought into focus at both the telephoto If the subject is out of focus, use the focus ring to focus, then zoom out, and use the flange back adjustment ring to bring the subject into focus.

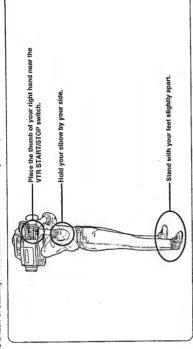
tighten up the flange back locking knob to prevent the flange back adjusting Upon completion of the adjustments, ring from moving out of position.

Also refer to the operating instructions accompanying the lens you have purchased.

Adjustments during shooting

Camera posture

If the camera is held rather than secured on the tripod for shooting, the images will feature plenty of movement but there will be a lack of stability. Hold the camera in such a way as to prevent camera shake.

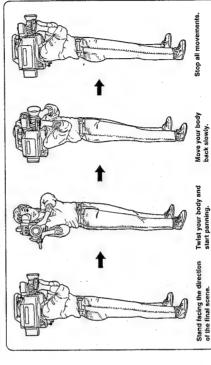


Camera movements

Basically, the camera should be fixed in position for shooting. If the pan and tilt functions are used, however, the recording will have more of a sense of movement. Moving the camera horizontally is called "panning"; moving it perpendicularly is known as "tilling." In moving the camera, the knack is to move it slowly. Better shots can be

taken by moving the camera very slowly. Even when a movement has been completed, suspend all movement for a few moments.

Panning

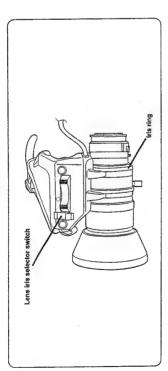


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Exposure adjustment

The exposure varies according to the lens iris.

The lens iris can be adjusted using the automatic iris or manual iris settings.



Automatic iris

Set the lens iris selector switch (IRIS) to "A.".

The iris is automatically adjusted to obtain the brightness which is commensurate with the subject.

The iris is automatically adjusted to obtain the brightness which is commensurate with the entire screen to control

This unit's automatic iris operation serves to measure the average brightness of the entire screen to control

the iris. This means that the subject will tend to become all white or dark when a spotlight is directed on the
subject or when the subject is shot under backlight conditions. Use the lens iris at the manual setting for lighting conditions such as these.

Manual iris

Set the lens iris selector switch (IRIS) to "M." Turn the iris ring and adjust the brightness.

Shooting conditions	Operation
Background is too bright, and subject is dark Open the iris slightly. (backlight)	Open the iris slightly.
Background is dimly lit, and subject is bright	Stop down the iris slightly.
When special effects are desired	Adjust the iris as required.

Also refer to the operating instructions accompanying the lens you have purchased.

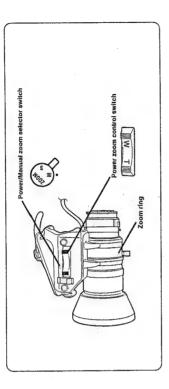
■ Use the built-in ND filter if there is too much light.

Note:

Zooming

Both power zoom and manual zoom functions are available for zooming.

Power zoom involves simply pressing a switch and selecting telephoto (TELE) or wide angle (WIDE); manual zoom involves operating the zoom ring and selecting telephoto or wide angle.



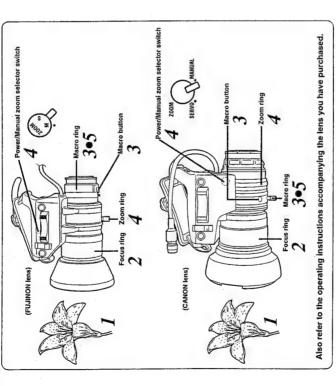
	Power zoom		Manual zoom
Zooming	Set the power/manual selector switch to "S."	zoom	zoom Set the power/manual zoom selector switch to "M."
Telephoto	Set the power zoom switch to T (TELE).	control	control Rotate the zoom ring downward.
Wide angle	Set the power zoom (switch to W (WIDE).	control	control Rotate the zoom ring upward.

Also refer to the operating instructions accompanying the lens you have purchased.

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How to take close-ups

The close-up (macro) function comes in handy when shooting insects, flowers or other subjects positioned at close distances of up to 1 meter or so from the unit.



Bring the lens up close to the subject.

 $\boldsymbol{\mathcal{Z}}$ Set the focus ring to the shortest possible setting.

 ${f 3}$ Press the MACRO button forward, and rotate the macro ring.

The subject appears at its maximum size when the macro ring is rotated as far as it will go.

Set the power/manual zoom selector switch to "M," and rotate the zoom ring to bring the subject into focus.

S After completing the macro shooting, return the macro ring to its click-stop position.

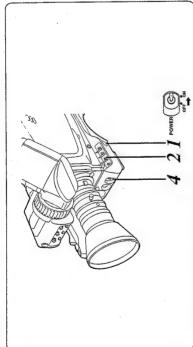
Light sources and color temperatures

When shooting a subject, it is necessary to adjust the white balance to a setting which matches the light source. A light source is expressed using a color temperature (K). The bluer the light, the higher the temperature; conversely, the redder the light, the lower the temperature. The table given below shows the correlation between light sources and color temperatures.

Light source	Color terr	Color temperature (K)
Clear skies	10,000	1
Cloudy	8,000	
Rainy Fluorescent lights (daylight)	6,000	
Sunshine at midday Mercury-vapor lamps Fluorescent lights (white)		White
1 hour after sunrise, 1 hour before sunset Fluorescent lights (warm white) Studio lights	(e) 3,500	Yellow
30 minutes after sunrise, 30 minutes before sunset Incandescent bulbs Sodium lamps	2,500	
(Lignung inside tunners) Sunrise, sunset Candlelight	2,000	red

White balance adjustment

This adjustment may be skipped when the white balance selector switch is used at the ATW position (automatic tracking wide balance mode) or PRST position (for shooting under a predetermined light source).



Set the POWER switch to ON.

Set the white balance selector switch to MEMO.



3 Place a sheet of white paper, handkerchief or something similar in conditions identical to those of the light sources which will be used to illuminate the subject, and zoom in on the subject so that the screen is filled with the white paper or handkerchief.

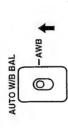
 Something white (such as a piece of white fabric or white wall) near the subject may serve instead, but it should be borne in mind that what you thought was white may in fact be slightly coloured.

thought was white may in fact be slightly coloured.

• Be careful not to open the lens it is to at when adjusting the white balance. Attempting to adjust the white balance with the inis open too far will cause the warning "TOO BRIGHT" to be displayed and processing to stop. Note that the "TOO BRIGHT" warning is especially prone to appear when the entire screen is filled with something white, such as a plece of paper.

(Generally speaking, selecting the AUTO IRIS mode to control the lens iris setting will ensure that it is automatically adjusted to the appropriate setting for the lighting level.)

Shoot the white object so that it fills the screen, and set the AUTO W/B BAL switch to AWB.



The white balance adjustment is completed is about 10 seconds.

• Upon completion of the adjustment, the color temperature display

matic tracking white

he automatic tracking thite balance mode is

ed when the

Upon completion of the adjustment, the color temperature display appears in the viewfinder. Now check that the color temperature imaged and the color temperature displayed in the viewfinder match. If they do not tally, it is

recommended that the white balance be adjusted again.

If it was not possible to adjust the white balance, the WHITE BAL ERROR TRY AGAIN message appears in the viewfinder. In a case like this, whenck that the lens cable is connected properly and that the subject brightness is suitable, and then adjust the white balance again.

When the white balance should be re-adjusted:

Be absolutely sure to re-adjust the white balance when there has been a change in the light conditions or when the gain setting has been changed.

operation unstable, learn how to use the MEMO, PRESET and ATW modes

racking white balance

nay make the auto

to best suit the prevailing

switch (AUTO W/B BAL) is

set to the ATW position. However, since the ■ Since hunting may occur when a zoom lens with an automatic iris mechanism is used, adjust the iris gain knob provided on the lens. For further details, refer to the operating instructions accompanying the lens.

Notes:

subject illuminated by a spotlight, proceed in the PRESET (INDOOR

When shooting a

If you know ahead of

time that you will be

shooting a subject outdoors, store the

white balance setting in

the MEMO position.

illuminated by a mixture

Shooting a subject

of light from fluorescen

■ The white balance cannot be adjusted if the white balance selector switch is set to the ATW or PRST position. ■ Do not allow a subject lighter than the white object shot in step 3 above onto the screen since the white balance is adjusted with the lightest part of the subject on the screen taken to be white. Failure to heed this caution may cause malfunctioning.

■ Do not increase the gain to an unnecessarily high value and then proceed with the automatic white balance (AWB) operation. Failure to heed this caution will cause the iris to be nearly stopped down when AWB is performed so operation will become unstable.

lighting and incandescent bulbs or by a mixture of outdoor light and fluorescent lighting because the

subject is by a window presents difficulties for automatic tracking. Under conditions such

Remarks: It is noter to ensure that a high picture quality is maintained, it is recommended that AWB be performed immediately before shooting scenes of great importance or value.

■ When the white balance is adjusted, the black balance is also adjusted automatically inside the unit. Consequently, when the AUTO W/B BAL switch has been operated, the iris will close before opening again; this is normal and not indicative of any malliuncitoning.

mergency when you do tot have the time to

Jse the ATW balance

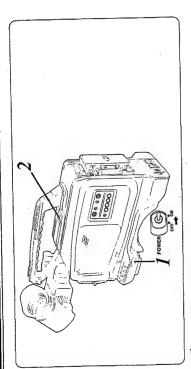
node only in an

as these, adjust the

djust the white balance

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Normal recording

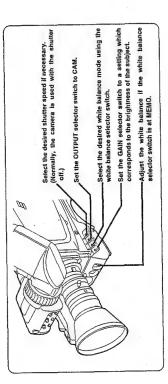


Set the POWER switch to ON.

Press the EJECT button to open the cassette holder, and insert the cassette tape.

Before proceeding with the recording, make sure that the cassette tab has been set to the REC position.
 This unit uses "L" cassettes only.

Set the camera switches as shown below. 3



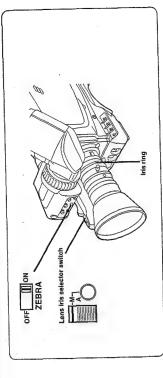
Point the camera at the subject and adjust the focus and zoom.

- Press the VTR START/STOP button to start the recording.
- Press the VTR START/STOP button to stop the recording.

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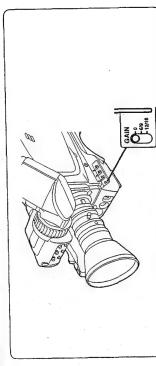
Zebra pattern display

A zebra pattern can be displayed on a bright part (over approx. 85 IRE) of the image.



Gain settings

When shooting in locations with insufficient lighting, a brighter image can be produced by increasing the gain. However, it should be borne in mind that the noise will also increase when the gain is raised.

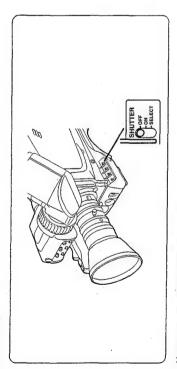


Gain settings of 0/6/12dB or 0/9/18dB are set on the menu item CAMERA SETTING menu screen for operation. (The 0/6/12dB settings were selected when the unit was shipped from the manufacturing plant.) For further details, refer to the menu items (on pages 48, 49 and 53).

Audio recording

High-speed shutter

Camera shake can be minimized when shooting moving subjects by increasing the shutter speed. Furthermore, shooting under fluorescent lights produces flickering images, and this flickering can be reduced by changing the shutter speed when shooting.



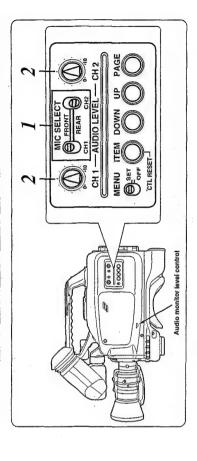
How to change the shutter speed

The SHUTTER switch is non-locking at the SELECT position. Each time It is operated at this position, the shutter speed changes in the following sequence: 1/100−1/1/25−1/250−1/500−1/1/000−1/2000 −1/40000−1/8000. When operated again at the 1/8000 setting, the speed returns to 1/100.

■ The higher the shutter speed setting, the darker the images will become. Check the brightness of the images in the viewfinder, and adjust the lighting and lens iris.

Notes:

■ When shooting extremely bright subjects with the shutter speed at a high setting, the smear effect (a form of distortion in which objects appear stretched out vertically) may be more noticeable than in the shutter OFF condition: this is normal and not indicative of any malfunctioning.



Select the desired input signals using the audio input selector switches.

en using external microphones - REAR

2 Adjust the recording levels using the audio level controls.

 Notes:

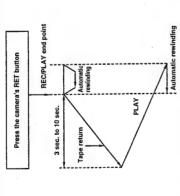
■ Howling may occur when the volume of the sound delivered through the audio monitor speaker is too high. If this occurs, turn the audio monitor level control down to a level at which howling does not occur.

Remarks: ■ The line input can be selected instead of the external microphones by setting an internal switch to the corresponding position. For further details, refer to page 59.

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Rec review

When the camera's RET button is pressed while the VTR is in the REC PAUSE mode (which is established after the tape has finished moving back automatically), rec review is conducted so that the quality of what has already been recorded can be checked.



The amount by which the tape moves backward can be controlled from 3 to 10 seconds by either pressing the camera's RET button and releasing it immediately or The playback images appear in the viewfinder while the tape is being played back in the rec review mode.

<When no recording has yet been made near the rec review start point>

The playback images of the blank part of the tape appear in the viewfinder.

Notes:

■ During the rec review operation, the rec review images are output to the video output connectors (BNC and S-VIDEO connectors) as well as to the viewfinder.

It should be borne in mind that these rec review images will be recorded if a back-up VTR has been connected to record back-up

Retake

 $1\times$ normal tape speed or reverse playback images at $1\times$ normal tape speed can be viewed while the button is held down. When the button is released, the REC PAUSE When the FF or REW button is pressed in the REC PAUSE mode, playback images at mode is re-established immediately. This function can be used to retake shots by running the tape to the desired position while checking the images and by starting recording again from that position.

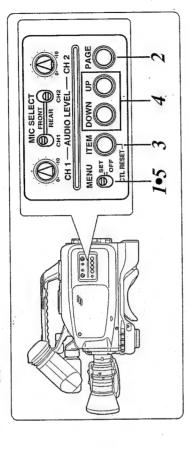
Still-picture playback

The STILL mode is established when the PLAY button is pressed during playback. Both the FF and REW LED displays in the operation section light up at this time. Normal playback is resumed when the PLAY button is pressed again.

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Menu items

Setting procedure

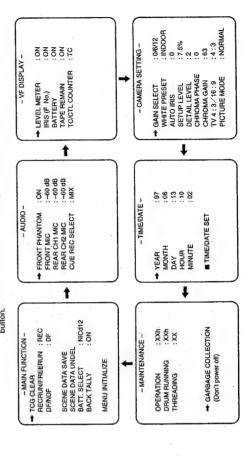


Set the MENU SET/OFF switch to SET.

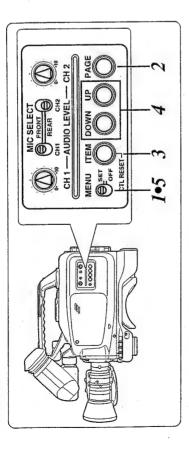
When the MENU SET/OFF switch is set to SET while the unit is in the stop, eject or rec pause mode, the menu screen is displayed.

Press the PAGE button. C

The menu screens are switched in succession as shown below by pressing the PAGE



Setting procedure



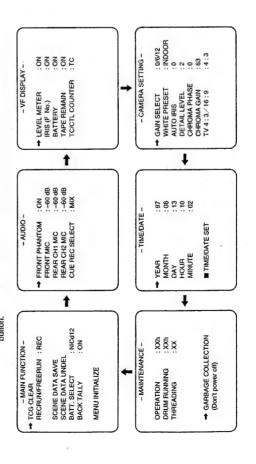
Set the MENU SET/OFF switch to SET.

When the MENU SET/OFF switch is set to SET while the unit is in the stop, eject or rec pause mode, the menu screen is displayed.

Press the PAGE button.

N

The menu screens are switched in succession as shown below by pressing the PAGE



E-49

3 Press the ITEM button.

The ITEM button is pressed to select items on each of the menu screens. Each time the ITEM button is pressed, the arrow at the left of the screen moves. The item indicated by the arrow is the item currently selected.

Press the UP or DOWN button.

Press the UP or DOWN button to change the setting.

5 Upon completion of the settings, set the MENU SET/OFF switch to OFF.

The original viewfinder screen is restored.

Notes:

The setting data is stored in the built-in flash memory several seconds after the MENU SET/OFF switch has been set to the OFF position. Bear in mind that the data will not be stored correctly if the battery or AC adaptor is removed while the MENU SET/OFF switch is still at SET or immediately after the switch was changed to the OFF setting.

MAIN FUNCTION menu

→ TCG CLEAR
RECRUNFREERUN : REC
DFNDF
SCENE DATA SAVE
SCENE DATA UNDEL
BATT. SELECT
BATT. SELECT
MENU INTIALIZE

Menu item	Mode setting	Description of function
TCG CLEAR		Clears the time code generator.
RECRUN/FREERUN	<u>REC</u> FREE	Selects whether the time code generator is to be used in the REC RUN or FREE RUN mode. Regeneration is conducted if REC RUN mode is selected.
DF/NDF	DF NDF	Selects whether the time code generator is to be operated in the drop frame or non-drop frame mode.
SCENE DATA SAVE		Stores the SCENE data on the tape. (Refer to the section on SCENE data on pages 56 and 57.)
SCENE DATA UNDEL		Restores the SCENE data. (Refer to the section on SCENE data on pages 56 and 57.)
BATT. SELECT	NICd12 NICd13 NICd14 DIGIT	Selects the type of battery to be used. NICd12: For an AC adaptor or a 12 V nicket-cadmium battery. NICd13: For a 13.2 V nicket-cadmium battery. NICd14: For a 14.4 V nicket-cadmium battery. DIGIT: For a digital nicket-cadmium battery (same for both 13.2 V and 14.4 V).
BACK TALLY	ON OFF	ON is selected if the back tally LED display is to be used; OFF is selected if it is not to be used.
MENU INITIALIZE		Restores all the menu items to the settings established before the unit was shipped from the factory.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

MAIN FUNCTION menu

- MAIN FUNCTION
- TCG CLEAR
RECRUN/FREERUN : REC
SCENE DATA SAVE
SCENE DATA UNDEL
BATT. SELECT
BACK TALLY
MENU INITIALIZE

: ON

Menu item	Mode setting	Description of function
TCG CLEAR		Clears the time code generator.
RECRUNFREERUN	REC.	Selects whether the time code generator is to be used in the REC RUN or FREE RUN mode. Regeneration is conducted if REC RUN mode is selected.
SCENE DATA SAVE		Stores the SCENE data on the tape. (Refer to the section on SCENE data on pages E-57 and E-58.)
SCENE DATA UNDEL		Restores the SCENE data. (Refer to the section on SCENE data on pages E-57 and E-58.)
BATT. SELECT	NIC412 NIC413 NIC414 DIGIT	Selects the type of battery to be used. NiCd12: For an AC adaptor or a 12 V nickel-cadmium battery. NiCd13: For a 12.2 V nickel-cadmium battery. NiCd14: For a 14.4 V nickel-cadmium battery. DIGIT: For a digital nickel-cadmium battery (same for both 13.2 V and 14.4 V).
BACK TALLY	ON OFF	ON is selected if the back tally LED display is to be used; OFF is selected if it is not to be used.
MENU INITIALIZE		Restores all the menu items to the settings established before the unit was shipped from the factory.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

- AUDIO
- FRONT PHANTOM : ON FRONT MIC :-60 dB REAR CH1 MIC :-60 dB REAR CH2 MIC :-60 dB CUE REC SELECT : MIX

Menu item	Mode setting	Description of function
FRONT PHANTOM	<u>ON</u> OFF	Sets the phantom power for the front microphone to ON or OFF. ON is selected if the microphone provided with the unit is to be used.
FRONT MIC	-60 dB -50 dB -40 dB	Selects the front microphone input level setting. Select -60 dB, -50 dB or -40 dB depending on the microphone used.
REAR CH1 MIC	<u>-60 dB</u> -50 dB -40 dB	Selects the rear microphone CH1 input level setting. Select -60 dB, -50 dB or -40 dB depending on the microphone used.
REAR CH2 MIC	-60 dB -50 dB -40 dB	Selects the rear microphone CH2 input level setting. Select -60 dB, -50 dB or -40 dB depending on the microphone used.
CUE REC SELECT	CH2 MIX	Selects the signals to be recorded on the CUE audio track from among the CH1, CH2 and MIX signals.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

VF DISPLAY menu

LEVEL METER : ON IRIS (F No.) ON BATTERY : ON TAPE REMAIN : ON TO/CTL COUNTER : TC

Menu îtem	Mode setting	Description of function
LEVEL METER	NO PFO	Selects whether the audio level meter reading is to be displayed on the viewfinder.
IRIS (F No.)	OP-F	Selects whether the lens iris f-value is to be displayed on the viewfinder.
ВАТТЕЯУ	ON OFF	Selects whether the remaining battery charge is to be displayed on the viewfinder.
TAPE REMAIN	ON OFF	Selects whether the remaining tape amount is to be displayed on the viewfinder.
TC/CTL COUNTER	TC UB CTL OFF	Selects whether the viewfinder counter display is to show the time code, user bit, CTL or none of these.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

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CAMERA SETTING menu

TING	: 0/6/12 : INDOOR : 0 : 7.5% : 2	: 4 : 3 : NORMAL
- CAMERA SETTING -	◆ GAIN SELECT WHITE PRESET AUTO IRIS SETUP LEVEL DETAIL LEVEL CHROMA PHASE	TV 4:3/16:9 PICTURE MODE

Menu item	Mode setting	Description of function
GAIN SELECT	<u>0/6/12</u> 0/9/18	Selects whether the 0/6/12 dB or 0/9/18 dB settings are to apply to the operation of the camera gain selector switch.
WHITE PRESET	INDOOR OUTDOOR FLUOR	Selects whether OUTDOOR, INDOOR or FLUOR (fluorescent lighting) is to be set when the camera's WHITE BAL selector switch is at the PRST position.
AUTO IRIS	3.0 0	Selects the target brightness of the auto iris. The brightness can be set in 0.1 increments from –3.0 to 3.0. Example: When –1.5 is selected, the Iris is closed by approximately 1.5 stops from the factory setting. However, there may be a slight deviation from this value.
SETUP LEVEL	0% 7.5%	Sets the camera setup level. Either 0% or 7.5% is selected.
DETAIL LEVEL	0 5 51	Finely adjusts the camera detail level. Adjustment is possible from 0 to 16.
CHROMA PHASE	-32 .: 0 .: 32	Finely adjusts the camera's chroma phase. Set the value in the + direction if the skin color is to be made redder or in the – direction if it is to be made more yellow. Any value from –32 to 32 can be set.
CHROMA GAIN	0 : 63	Adjusts the camera's color intensity. The higher the value, the greater the intensity of the colors. Any value from 0 to 63 can be set.
TV4:3/16:9	16:9	Selects whether the camera is to be used for screen dimensions of 4:3 or 16:9.
PICTURE MODE	NORMAL	NORMAL is selected for ordinary shooting. At the FRAME setting, pictures have the "skipped frame" effect.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

Menu items

CAMERA SETTING menu

↓ GAIN SELECT	: 0/6/12
WHITE PRESET	: INDOOR
AUTO IRIS	0:
DETAIL LEVEL	. 2
CHROMA PHASE	0:
CHROMA GAIN	: 63
TV 4:3/16:9	:4:3

Menu item	Mode setting	Description of function
GAIN SELECT	<u>0/6/12</u> 0/9/18	Selects whether the 0/6/12 dB or 0/9/18 dB settings are to apply to the operation of the camera gain selector switch.
WHITE PRESET	INDOOR OUTDOOR	Selects whether OUTDOOR or INDOOR is to be set when the camera's WHITE BAL selector switch is at the PRST position.
AUTO IRIS	-3.0 3.0	Selects the target brightness of the auto iris. The brightness can be set in 0.1 increments from ~3.0 to 3.0. Example: When ~1.5 is selected, the iris is closed by approximately 1.5 stops from the factory setting. However, there may be a slight deviation from this value.
DETAIL LEVEL		Finely adjusts the camera detail level. Adjustment is possible from 0 to 16.
CHROMA PHASE	-32 32	Finely adjusts the camera's chroma phase. Set the value in the + direction if the skin colour is to be made redder or in the – direction if it is to be made more yellow. Any value from –32 to 32 can be set.
CHROMA GAIN	63	Adjusts the camera's colour intensity. The higher the value, the greater the intensity of the colours. Any value from 0 to 63 can be set.
TV 4:3/16:9	4:3 16:9	Selects whether the camera is to be used for screen dimensions of 4:3 or 16:9.

The underlining for the mode settings indicates the modes selected before the unit was shipped from the factory.

TIME/DATE menu

TE-	: 97 : 06 : 13 : 02	
- TIME/DATE -	◆ YEAR MONTH DAY HOUR MINUTE	■ TIME/DATE SET

Make absolutely sure that the arrow is moved to the " TIME/DATE Note:

	SET" or DO DOWN	SET" position upon completion of the setting, and then press the UP or DOWN button. The settings will not be recorded unless the UP or DOWN button is pressed at the " TIME/DATE SET" position.
Menu item	Mode setting	Description of function
YEAR	66 :	Sets the last two digits of the year. Examples: "97" is set for 1997, and "01" for 2001.
MONTH	91 : 12	Sets the month using two digits.
DAY	01 : 31	Sets the day using two digits.
HOUR	00 : 24	Sets the hour (24-hour mode) using two digits.
MINUTE	00 : 59	Sets the minute using two digits.

MAINTENANCE menu

ATION :XXh A RUNNING :XXh ADING :XX	◆ GARBAGE COLLECTION (Don't power off)
OPERA DRUM F THREAL	† (Don
	OPERATION :XXh DRUM RUNNING :XXh THREADING :XX

Menu item	Description of function
OPERATION	Indicates the number of hours during which power has been supplied to the unit to date.
DRUM RUNNING	indicates the total accumulated number of hours during which the head cylinder has been operating to date.
THREADING	Indicates the number of times a tape was loaded to date.
GOLLECTION	Gives the cornmand to collect the garbage in the built-in flash memory. If the "FLASH MEMORY EMPTY" message appears in the viewlinder when the power is turned on, align the arrow with "GARBAGE COLLECTION," and press the UP or DOWN button. Collection of garbage in the flash memory then commence. • Once the collection of garbage in the flash memory has commenced, no operation is possible for about one minute. Upon completion of this processing, normal operation can be resumed. • While the garbage in the flash memory is being collected, do NOT turn off the power. Also ensure that the battery has an adequate charge during this operation. If the power is cut off during the processing, the collection of the garbage in the flash memory will be discontinued and not completed properly, and this will affect subsequent operation.

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SCENE data (news gathering data recording)

If SCENE data is used for future non-linear editing or other such applications, it will be bossible to do the tob extremely efficiently.

possible to do the job extremely efficiently. SCENE data is an information exchange system for enhancing efficiency during SCENE data is an information exchange editing. It operates by gathering information for editing during shooting and recording it onto the tape.

The SCENE data information consists of the following data for each cut.

		*-	
MARK	MARK		MARK
Recording stop time code	Recording stop time code		Recording stop time code
Recording start time code	Recording start time code		Recording start time code
Cut 1	Cut 2		Cut 200

The recording start time code and recording stop time code are automatically written

MARK is written by operating buttons.

• A return is made to cut 1 when the cassette tape is replaced.
• In order to ensure frame-to-frame continuity in operation, this unit returns the tape by several trames from the position of the previous cut's recording stop, and then it starts to record the next cut (this is known as overlap recording). For this reason, the position of the SCENE data information's recording stop time code is shifted slightly from the end point of the cut recorded on the tape.

MARK operation

The "No MARK" status is established when recording starts. MARK 1" or "MARK 2") WARK is an extremely simple memo (3 types: "No MARK," "MARK 1" or "MARK 2")

which is all externey simple mento (3 types; No mark, mark which is inserted during shooting to facilitate editing afterwards.

which is insisted using shouling to racilitate cutting anterwards.

Make up your own rules governing the use of these marks by, for instance, assigning "MARK t" to one shooting session and "MARK t" to another. When a siluation arises which meets the conditions of the rules you have made up, press the MARK/CANCEL button. "MARK t" now appears in the right comer of the viewfinder. When the MARK/CANCEL button is pressed again, "MARK 2" appears, and when the MARK/CANCEL button is pressed again, the CANCEL mode is established, and the "MARK/CANCE button is pressed to the viewfinder is cleared.

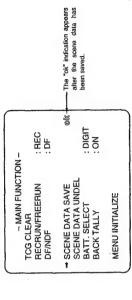
the "MARK" display in the right comer of the viewfinder is cleared. When the recording of the next cut is started, this "MARK" is recorded into the internal memory, and the MARK/CANCEL button may be pressed any number of times until the next recording is started.

2 Saving the SCENE data onto the tape

The SOENE data is saved before the tape is ejected. Normally, it is saved after the final cut has been shot.

Set the menu SET/OFF selector switch to SET and display the MAIN FUNCTION MENU.

Menu item screen (viewfinder)



Use the ITEM button to align the arrow with the SCENE DATA SAVE position, and

press the UP or DOWN button. The color of the screen changes to green, and the VTR starts operating in the recording mode. It takes about 10 seconds for the SCENE data to be saved, after which the original vewfinder screen is restored and "ok" indication will appear.

Notes:

Other operations cannot be performed while the SCENE data is

When the tape is ejected, the SCENE data stored to date is cleared, and the preparations are made to gather the SCENE data for the next tape.

■ SCENE data cannot be saved from the SAVE mode (which is automatically established to protect the tape when the unit has been left standing in the REC PAUSE mode for more than 30 minutes). In this case, first press the STOP button to release the SAVE mode, and then save the SCENE data.

Remarks:

■ If it is absolutely essential for the data to be restored because you forgot to save it before the tape was ejected, reload the ejected tape, display the MAIN FUNCTION menu screen, and use the ITEM button to align the arrow with SCENE DATA UNDEL. The data can now be restored by pressing the UP or DOWN button.

now be restored by pressing the UP or DOWN button. If the tape is reloaded after its ejection and recording is then started, the data will be rewritten by the SCENE data for the new tape. This means that the data cannot be restored.

Menu items

$oldsymbol{2}$ Saving the SCENE data onto the tape

The SCENE data is saved before the tape is ejected. Normally, it is saved after the final cut has been shot.

Set the menu SET/OFF selector switch to SET and display the MAIN FUNCTION

Menu item screen (viewfinder) - MAIN FUNCTION TCG CLEAR RECRUN/FREERUN : REC → SCENE DATA SAVE SCENE DATA UNDEL BATT. SELECT BACK TALLY MENU INITIALIZE

Use the ITEM button to align the arrow with the SCENE DATA SAVE position, and press the UP or DOWN button.

The VIX earlie consented is the consented and according to the consented to the conse

The VTR starts operating in the recording mode. It takes about 10 seconds for the SCENE data to be saved, and "ok" indication appears.

Notes:

Other operations cannot be performed while the SCENE data is

■ The colors of the camera image may change while the SCENE data is being saved, This is not a maffunction. Once the SCENE data has been saved, the colors will return to their original state. Also, the camera image appears in the viewfinder and is output via the VIDEO OUT jack while the SCENE data is being saved, but an image that is completely green is recorded on the tape. This facility makes it easier during playback to find the exact position where the SCENE data was recorded.

When the tape is ejected, the SCENE data stored to date is cleared, and the preparations are made to gather the SCENE data for the next tape.

I SCENE data cannot be saved from the SAVE mode (which is automatically established to protect the tape when the unit has been left standing in the REC PAUSE mode for more than 30 minutes). In this case, first press the STOP button to release the SAVE mode, and then save the SCERE data.

If it is absolutely essential for the data to be restored because you forgot to save it before the tape was ejected, reload the ejected tape, display the MAIN FUNCTION menu soreen, and use the ITEM button to align the arrow with SCENE DATA UNDEL. The data can now be restored by pressing the UP or DOWN button. If the tape is reloaded after its ejection and recording is then started, the data will be rewritten by the SCENE data for the new tape. This means that the data cannot be restored.

Remarks:

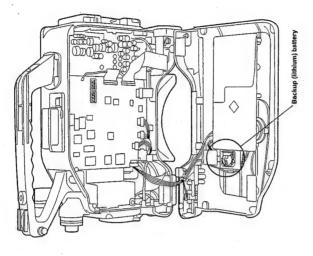
7.58

Replacing the back-up battery

The unit is shipped from the factory with a back-up battery already installed.

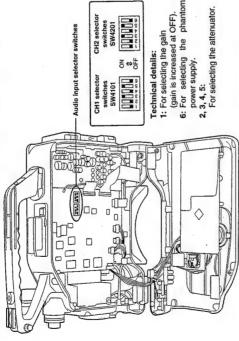
The "BACKUP BATTERY EMPTY" message appears in the viewfinder when the back-up battery has run down.

Consult with your dealer, and replace the battery with a new one (CR2032 or BR2032).



Selecting the audio input

To connect phantom microphones or the line input to the audio input connectors on the rear panel, set the internal switches (audio input selector switches) to the appropriate positions.



When an ordinary microphone is used (factory settings):

ON :3,5 OFF:1,2,4,6 No Constant

When a phantom microphone is to be used:

ON :3,5,6 OFF:1,2,4 g ⇔ř

Set the switches to the above positions.

When the line input is to be used:

Set the switches to the above positions. ON :1,2,4 OFF:3,5,6

menu/see page 51) but the menu screen display will remain unchanged even when the internal switches are set to the positions shown above. Use the table given below as a reference to convert the input level. The line input level can be switched to one of three settings: -6 dB, 0dB or +4 dB. It is set using the REAR CH1 MIC/REAR CH2 MIC menu item (on the AUDIO

Menu display	For microphone	For line input
-60 dB	8b 09-	-6 dB
50 dB	-50 dB	BP 0
-40 dB	-40 dB	+4 dB

Tips on lighting

Studio lighting

If the color temperature of the light source differs from this value, the colors of the subject will appear differently to what is seen by eye. The shadows may take on colors or the image may Use halogen lamps with a color temperature of 3,000K to 3,200K for lighting in a studio.

Use lighting of 300 lux or above. If it is less than this value, the screen may appear dark, the contrast may be insufficient, the depth of focus may be shallow or the picture quality may suffer not appear with the proper colors.

Ensure that the lighting is directed evenly over the entire subject and that no shadows are deterioration in some other way.

Consult the table below and use the figures given, which are approximations only, as a guideline for evaluating the brightness.

Brightness of a candle at 20 cm (10 to 15) Brightness of a cigarette lighter at 30 cm (15)	Brightness underneath a street lamp (50 to 100)	 Shopping arcade at night (150 to 200) Direct beam from a flashlight at 1 m (250) 	 Indoor area lit with fluorescent lighting (400 to 500) 	 Sales counters of a department store (500 to 700) Sunlight 1 hour before dusk on a clear day (1,000) 	 Sunlight 1 hour after dawn on a cloudy day (2.000) By a train window in the afternoon (3.500) 	Surnight at 10 AM on a cloudy day (25,000) Surnight at noon on a cloudy day (32,000) Surnight at 3 PM on a clear day (35,000) Surnight at 10 AM on a clear day (65,000)	• Sunlight on a clear day (100,000)	Outdoors at noon under a cloudless sky On the beach at the height of summer In the mountains covered with snow
10	30	100	200	1,000	9	000,00	100,000	(Unit: lux)
paynbay buj	ired Light	Lighting des	1	gnitrigil tuor	дім бидос	Actual sho	beniu	ND filter req
Use of helogen lamps (3,000 K to 3,200 K) with a brightness of over 300 lux as the light sources and with the lighting directed evenly over the subject	rt directed Back light slightly belightly belightly belightly			Slightly weaker base light dight discharged from the top right				

Notes:

long time which is reflecting either a bright light or the light which Do not expose the lens directly to sunlight or shoot a subject for a

fluorescent lights. Add extra lighting such as video lights (optional accessories) in cases like this. Flickering may result if the camera is used to shoot under is used for lighting.

Use the built-in ND filter if there is too much light.

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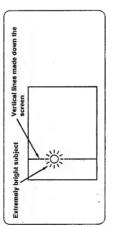
If the subject is too bright when, for instance, shooting outdoors under a clear sky, adjust the brightness either using the electronic shutter or the built-in ND filter.

Phenomena inherent to CCD cameras

The following phenomena are known to arise in CCD cameras

Smear

Although this unit has extremely low smear characteristics, smear may arise when shooting an extremely bright subject.



Flickering may occur if fluorescent lights are used for the lighting. This is the case in areas where the commercial power line frequency is 50 Hz or when a high shutter speed is used. To prevent flicker, set the electronic shutter speed to 1/100 where the commercial power line requency is 50 Hz and to OFF where it is 60 Hz.

Moiré

Shooting a subject with striped patterns may give rise to the formation of Moiré patterns.

White streaks

White streaks may appear at high temperatures. They may be more conspicuous when the gain has been increased.

Picture roughness

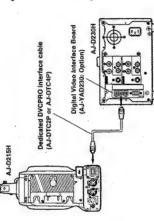
Roughness in a specific pattern may appear all over the screen when the temperature is extremely high.

AV signal digital transfer

By connecting it to an AJ-D230H (digital VTR) using the specified cable, it becomes possible to digitally It then becomes possible to use it as a backup (Complies with IEEE1394-1995 standard) transfer AV signals from the AJ-D215H. recorder for the AJ-D230H.

Equipment connections

or AJ-DTC4P) to connect the AJ-D215H to AJ-D230H. (The input/output pins on the DVCPRO interface connector are bidirectional. No distinction is made Use a dedicated DVCPRO interface cable (AJ-DTC2P between the input and output sides.)



Operating precautions

- Use a dedicated DVCPRO interface cable (AJ-DTC2P or AJ-DTC4P) for the connection.
- Disturbances may be caused in the AV signals by turning the connected equipment's power ON or OFF and by connecting or disconnecting the interface cable.
- system to stabilize when the mode is changed. Wait until the system operation has stabilized It may take a few seconds for the operation of the before proceeding to record.
 - When recording with DVCPRO interface input signals, the recording volume level control on the AJ-D230H will not function.
- recording purposes is supported but the timing at The REC command to the AJ-D230H for backup which the AJ-D230H is set to the recording mode will be delayed by one second or so from the timing at which the AJ-D215H enters the recording mode.

- Interface signals cannot be input to the AJ-D215H DVCPRO. Neither is it possible to control a AJ-D215H VTR using the AV/C command.
- is to be recorded on an external VTR, it is recommended that the TCG mode be set to the Time code data and UB data are not contained in the DVCPRO interface output signals from the AJ-D215H. When a camera image from the AJ-D215H FREE RUN setting in advance.
- on the in the However, the time code data and UB data tape will be output but only playback output signals. playback
 - The sound is muted during still picture, fast forward, cue, rewind and review, that is, at all times except during AV playback.
- AJ-D230H controls the recording in synchronization with the recording start button (VTR START/STOP button) on the AJ-D215H. (This is known as the When a tape has been loaded in the AJ-D215H, the synchronized recording mode.)
 - Only one AJ-D230H unit can be connected when synchronized recording mode has been
- from the AJ-D215H can be recorded by setting the AJ-D230H to the local mode. (This involves setting The synchronized recording mode will not be established when a tape has not been loaded in the AJ-D215H. The DVCPRO interface output signals the LOCAL/MENU/REMOTE switch on the front panel of the AJ-D230H to the LOCAL position.) the synchro established.
 - One or two AJ-D230H units can be connected at this time.
- Recording with the AJ-D230H is possible only using the DVCPRO format. D215H is fixed at "0." Set the DVCPRO interface input channel to "0" when DVCPRO interface output signals from the AJ-D215H are to be received using the AJ-D230H. Recording with the AJ-D230H is not The DVCPRO interface output channel from the AJ-
- When mounting the digital video interface board (AJ-YAD230P) onto the AJ-D230H and using in local mode, set No. 805 DIF REC SEL of the setup possible at any other channel setting. menu to "ERASE".

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AV signal digital transfer

AJ-D215H VTR modes and DVCPRO interface output statuses

	AJ-D215H			AJ-D230H (external	AJ-D230H (external VTR for recording)
VTR mode	DVCPRO I/F OUT	VIDEO	AUDIO	Synchronized recording mode	LOCAL mode
STOP				Key operations are acknowledged.	
FF/REW	Camera E-E output (AUDIO/VIDEO)	Camera E-E output	E-E output (AUDIO IN)		
STANDBY					
PLAY	Tape output (AUDIO/VIDEO)		Tape output	Key operations are not acknowledged.	.
STILE LAY+PĽAY)	Tape output	Tape output	S.		All key operations of the AJ- D230H are acknowledged
AY+FF/ AY+REW	(VIDEO)		muling		regardless of the AJ-D215H VTR operation mode.
REC				Key operations are not acknowledged.	
EC PAUSE	Camera E-E output	Camera	E-E output	Operations are synchronized with the AJ-D215H VTR operation mode.	
EJECT		ndhn	(NI DIGON)	Key operations are not acknowledged. However, keys can be operated when the AJ-0215H is set to the STOP mode.	
Remarks	Use a dedicated DVCPRO interface cable.	BNC output		INPUT SELECT switch: "OPTION" position LOCAL/MENU/REMOTE switch: "REMOTE" position	IMPUT SELECT switch: "OPTION" position LOCALMENU/REMOTE switch: "OCAL "position"
					בססיים הספונים

Troubleshooting

If you suspect trouble in your unit, proceed with the inspections or adjustments described below. Consult your dealer if the trouble persists even after you have taken the remedial action suggested.

Symptom	Inspection/adjustment	Reference page no.
 The power fails to come on. 	 Check if the battery still has a sufficient charge. Check if the AC adaptor has been connected securely. 	+
The low battery warning is given (BATT LED or TALLY LED lights or flashes).	 Check if the battery still has a sufficient charge. Check if the battery setting menu item has been set correctly. If the AC adaptor is being used, use the NiCd12 setting for the battery selection menu item. 	15, 50
The "BACKUP BATTERY EMPTY" message appears when the power is turned on. The real time is not correct.	• The back-up battery may have reached the end of its service life (approx. 1 year). Consult with your dealer and replace it with a new one.	16, 58
 No operation results when the function buttons are pressed. 	 Check the viewfinder for error messages. 	16, 17
 The tape cannot be fast forwarded or rewound. 	 Check if the tape has already been fast forwarded or rewound all the way to the end or beginning of the tape. 	-

Condensation

Condensation may form on the head cylinder when the unit is moved from a cold location into a warm room or when it is operated in a humid environment.

The principle behind this phenomenon is the same as when droplets of water form on the window panes of a

These droplets are called condensation. If the tape is made to travel when condensation has formed, the head cylinder and tape may be damaged.

Take the following precautions regarding condensation:

- Before inserting the cassette tape, set the power switch to ON, and check that the VTR LED or TALLY LED is not lighted or flashing and that the HUMID display is not lighted on the display panel.
 - Whenever possible, avoid operating the unit in situations where condensation is likely to form.
 - When the unit is to be moved, remove the cassette tape before moving it.
- If the HUMID display flashes while the cassette tape is already loaded, take the following steps.
 - Turn on the power.
- 2. Press the EJECT button to eject the cassette tape.
- Wait until the HUMID display stops flashing.Once the HUMID display has stopped flashing, insert the cassette tape and run it.
 - Check that no trouble occurs.

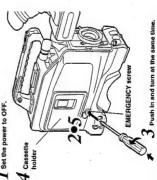
Emergency eject

This If the cassette cannot be ejected by pressing the EJECT button, use a screwdriver or similar tool to press and turn the EMERGENCY screw. enables the cassette to be removed.

Set the power to OFF.

Remove the rubber cap where shown in the figure. Insert a Phillips head screwdriver into the cross-shaped part of the EMERGENCY screw (red). V





• This scraw needs to be rotated through about 30 turns after the fish furn multi burnloading can be started.

• This scraw needs to be rotated through about 120 turns after the first turn until the tape is ejected.

the EMERGENCY screw counterclockwise until the tape is ejected. 3 While pushing in with the screwdriver, turn

- 30 turns after the first turn until the unloading can be started. This screw needs to be rotated through about
- 120 turns after the first turn until the tape is This screw needs to be rotated through about ejected.
- 4 Remove the cassette.

Seturn the rubber cap to its original position.

- Do not turn the EMERGENCY screw except in an
 - Do not turn the screw clockwise. Stop turning the screw as soon as the tape is ejected. Otherwise, the mechanism may be damaged.
- lock into placed even when an attempt is made to After the tape is ejected, the cassette holder will not back on to reset the mechanism's operation, and close it. Be sure to turn the power off and turn it then close the cassette holder.
- clicking sound will be heard when the EMERGENCY screw is turned: this sound is made by the reel drive operation and is therefore not indicative of a malfunction.

Maintenance

- performance. Take care to conduct proper maintenance in order to keep the unit in perfect The unit has a precision-made construction inside which is designed to deliver a high working order for many years to come. Sophisticated technology and equipment are required to replenish the oil, replace the parts or adjust the electrical components. Consult your dealer as to when these steps need to be taken.
- Failure to adhere to the maintenance and inspection routine, which involves removing the dirt and dust from inside, replenishing the lubricating oil and replacing the worn parts (such as heads), will make it impossible for the unit to produce quality pictures and proper recordings. It will also shorten the unit's service life. Ensure that the unit is maintained and inspected well

Cleaning the heads

When the heads need to be cleaned, use the AJ-CL12LP cleaning cassette. Follow the handling instructions accompanying the cleaning cassette since the video heads may be damaged if it is used incorrectly.

Cleaning the lens

- Maintain and inspect the lens once a year.
- Wiping the lens may leave scratches on it. Use an air blower or a brush with soft bristles to
- blow or brush away the dirt or dust which may have accumulated on the lens surface.

 If grease or tingerprints have been left on the lens, use a lens cleaner available from a camera shop, and wipe the lens starting from its center. Make circular motions and work toward the

Ensure that droplets of water will not find their way to the lens when shooting in rainy or snowy conditions.

Once the lens has been removed from the camera, attach the lens cap to prevent dust and dirt accumulating on the inside of the lens.

Cleaning the viewfinder

- Do not use paint thinners or other solvents to remove dirt on the viewfinder.
 - Use a lens cleaner available from a camera store to wipe the lens.
- Under no circumstances must the mirrors be touched. Use an air blower available from a camera store to blow away any dirt or dust which may have accumulated on them.

- 64-

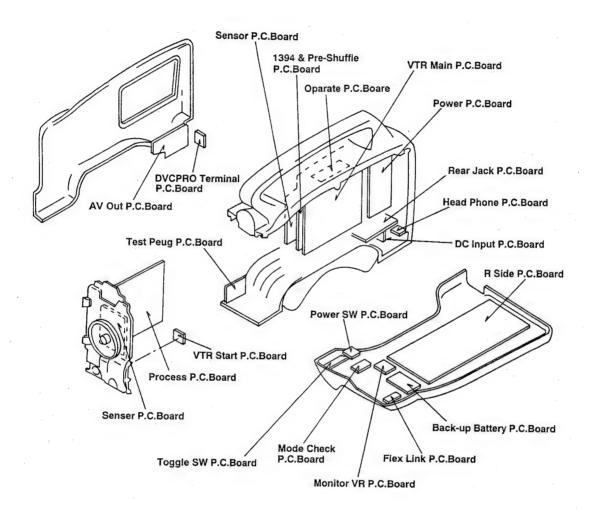
SECTION 2

SERVICE INFORMATION

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Circuit Board Layout



1. Service Menu

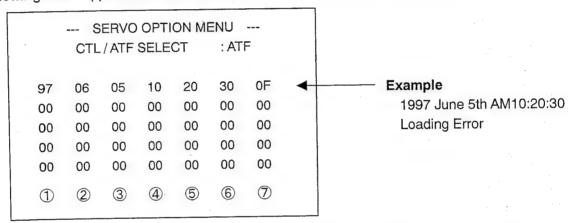
The following menu allows service personnel for service the AJ-D200/D215.

1-1. Software Version Menu

Set the MENU SET/OFF switch to SET white the **UP** and **DOWN** button depressed. It will display Software version of System Control and servo.

1-2. Error Record Menu (Servo Option Menu)

Set the MENU SET/OFF switch to SET while the **UP** and **ITEM** button depressed. The following menu appear in the View Finder.



① Year ② Month ③ Day ④ Hour ⑤ Minute ⑥ Second ⑦ Error Code

Error Code	Error
04	Detected abnormal condition of the Brake or Pinch Solenoid.
08	Detected abnormal condition of the Cleaning Solenoid.
0F	Detected loading or unloading operation not completed less than 10 seconds.
0E	Detected Drum motor locked up for 3 seconds.
0D	Detected Capstan motor locked up for 1.5 seconds.
0C	Detected Take Up motor locked or abnormal speed condition up for 3 seconds.
0B	Detected Supply motor locked or abnormal speed condition up for 3 seconds.
FF	Detected communication error between System Control and Servo.
09	Detected serial clock communication error from Servo.
0A	Detected DEW condition.
11	Detected no Frame pulse.

1-3. TC/UB/CTL Set Menu

Set the MENU SET/OFF switch to SET while the **DOWN** and **PAGE** button depressed. The following menu appear in the View Finder.

TC DATA	SET
→ HOUR	: 00
MINUTE	: 00
SEC	: 00
FRAME	: 00
■ TC DAT	A SET

- 1. Select item by ITEM button.
- 2. Change data by UP or DOWN button.

Hour: $0 \sim 23$ Minute: $0 \sim 59$ Second: $0 \sim 59$ Frame: $0 \sim 29$

- 3. Select TC DATA SET by ITEM button.
- Press UP or DOWN button to set the data. (change flush to light)

J Press PAGE button.

UB DATA	SET
→ HOUR	: 00
MINUTE	: 00
SEC	: 00
FRAME	: 00
■ UB DATA	SET

- 1. Select item by ITEM button.
- 2. Change data by UP or DOWN button.

Hour: $0 \sim FF$ Minute: $0 \sim FF$ Second: $0 \sim FF$ Frame: $0 \sim FF$

- 3. Select UB DATA SET by ITEM button.
- 4. Press UP or DOWN button to set the data. (change fluch to light)

↓ Press PAGE button.

CTL DATA	SET
→ HOUR	: 00
MINUTE	: 00
SEC	: 00
FRAME	: 00
■ CTL DATA	SET

- 1. Select item by ITEM button.
- 2. Change data by UP or DOWN button.

Hour: $0 \sim 23$ Minute: $0 \sim 59$ Second: $0 \sim 59$ Frame: $0 \sim 29$

- 3. Select CTL DATA SET by ITEM button.
- Press UP or DOWN button to set the data.
 (change flush to light)

[↓] Press PAGE button to return TC DATA Set menu.

2. PC-EVR Adjustment Program

2-1. Adjustment Program Requirement

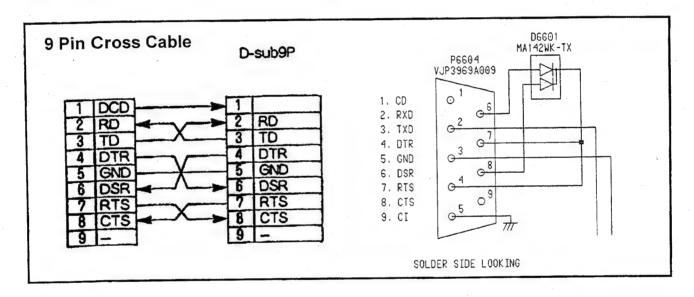
- PC-EVR Adjustment Software (VFK1340)
- Personal Computer (with WINDOWS Ver. 3.1 or WINDOWS 95)
- RS232C Cross Cable (9 Pin Female)

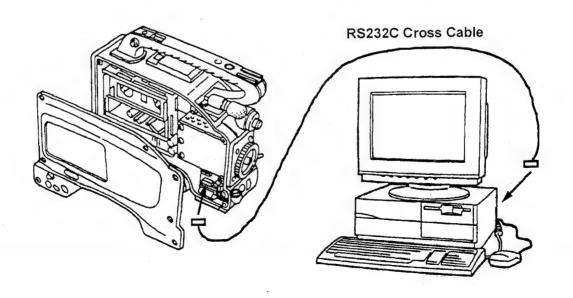
2-2. Set Up the Program & PC-EVR Connection

Install the Adjustment Program (VFK1340) floppy disk to the hard disk in personal computer.

Place FD in the Floppy Disk drive and copy [VSD] holder to the Hard Disk drive (C drive).

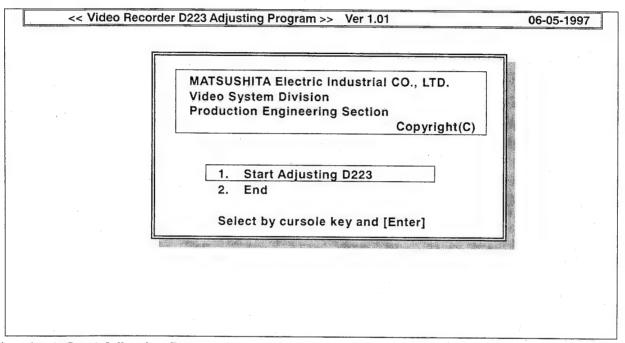
Connect the serial port of PC and P6604 of the TEST Connection C.B.A. at right side of the unit with 9 pin cross cable. (Please remove the Cassette Cover and Right Panel before perform adjustment.)





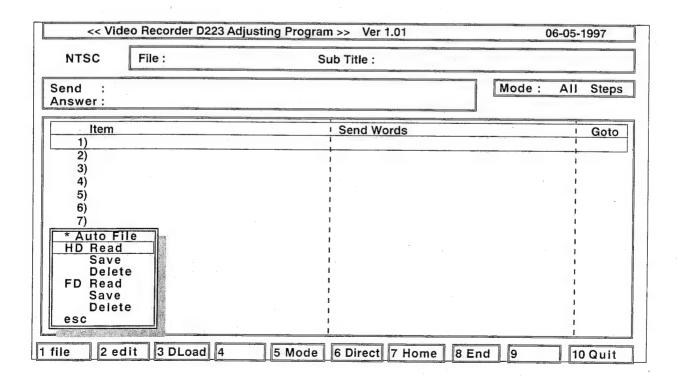
2-3. Start Up the Program

Type **CD VSD** and press Enter key at DOS prompt. Type **ADJVD** and press Enter key. Type **ADJVD038** then start this adjustment program and following title appears on the screen.

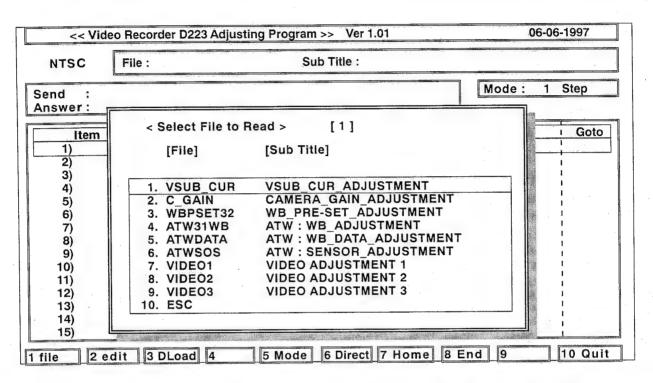


Select the 1. Start Adjusting D223 and press Enter key. Next appears NTSC/PAL (select PAL) and press Enter key.

The * Auto File window appear at left bottom on screen and select HD Read by ↑ ↓ key and press Enter key.

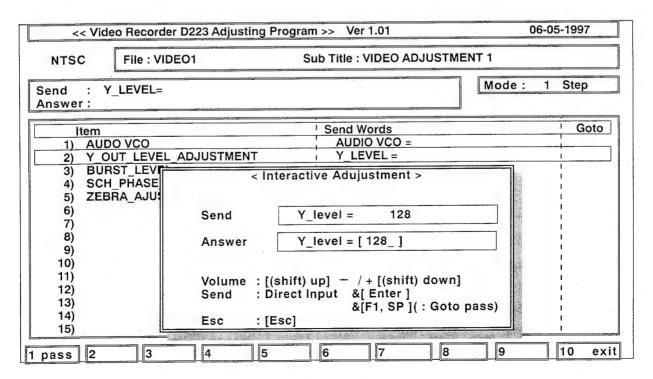


The **<Select File to Read>** window appear and select **Sub_Title** refer to each adjustment procedure by $\uparrow \downarrow$ key and press Enter key.

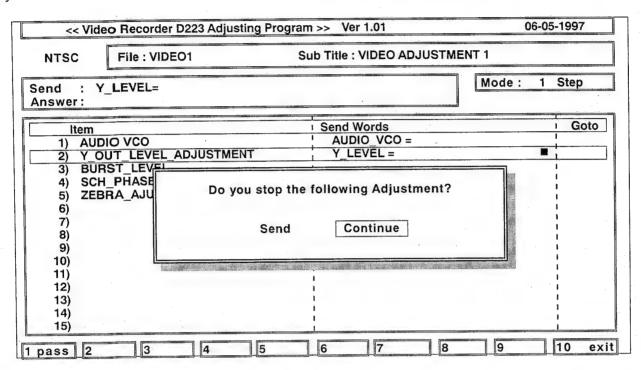


Move to other **Sub_Title**, press **F1** (**File**) key after completed adjustment it will appear ***Auto File** window and select HD Read. Therefore **<Select File to Read>** window appear again.

The <Interactive Adjustment> window will appear when selected adjustment item as following. Press ↑ ↓ key to change value of data, then press Enter and ESC key write data in EEPROM.



After pressed ESC key the following window appear on screen. **Do you stop the following Adjustment?** if want to <u>go next item</u>: select **Continue** and press Enter key. If want to <u>Exit</u>: select **Stop** and press Enter key.

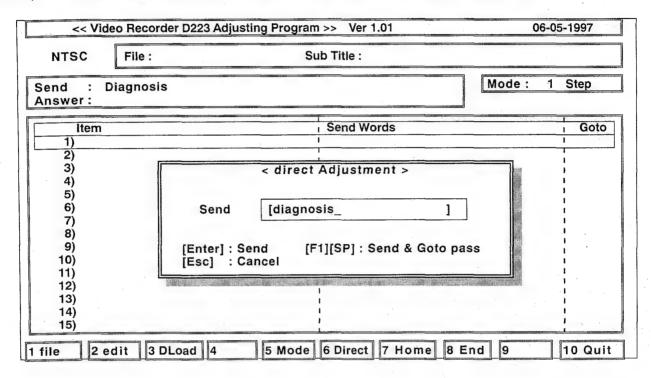


Direct Command List

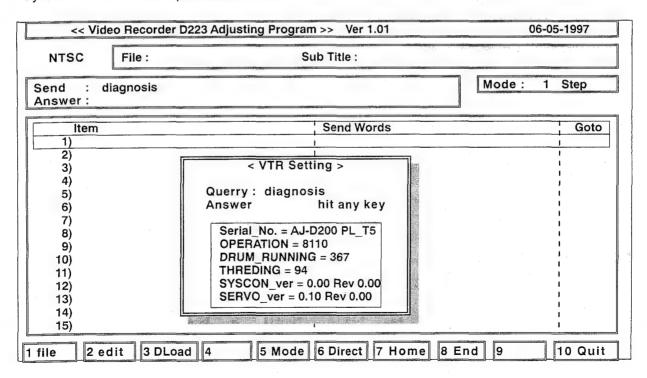
Command	Contents			
DIAGNOSIS	Inquire of the Return Operation Hours, and Syscon & Servo soft versions.			
ADJMODE	Inquire of the Servo mode setting (Servo mode, Conceal, ECC and Dolby)			
SETUPMENU	Inquire of the Menu set up.			
INITIALIZE=OPERATION Clear of the Operation hours.				
INITIALIZE=DRUM_RUNNING Clear of the Drum rotation hours.				
INITIALIZE=THREADING Clear of the Loading times.				
INITIALIZE=MENU	Initialize the Menu to the Factory default setting.			
SYNC	Force the adjustment data write into the Flush-memory.			
CONCEAL=ON	Conceal ON			
CONCEAL=OFF	Conceal OFF			
INNERECC=ON	Inner ECC ON			
INNERECC=OFF	Inner ECC OFF			
OUTERECC=ON	Outer ECC ON			
OUTERECC=OFF	Outer ECC OFF			
DOLBY=ON	Dolby ON			
DOLBY=OFF	Dolby OFF			

2-4 Direct Command operation

Press **F6** (**Direct**), **<Direct adjustment>** window appear on screen as shown in below. Example: Type **diagnosis** and press Enter key. Therefore appear return data from unit.



Example: <VTR Setting> shows Serial No., Operation hours, Drum rotation hours, Loading threding time and System Control & Servo processor version.



3. 232C Communication Software

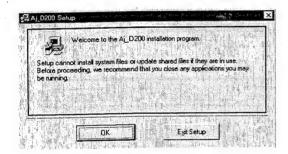
Part No. VFK1425

This software used read or write the Adjustment and Menu setting data between the personal computer and the AJ-D200 or AJ-D215.

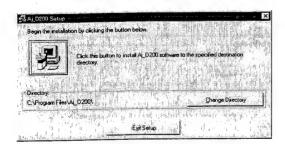
3-1. INSTALLATION

This software has three floppy disks. (Windows95 is required)

- (1) Inset the SETUP Disk1 to the Drive A: (Floppy Disk Drive).
- ② Select A: Drive on the Explore, and double click the [Setup] file then the file initialize window will be displayed.
- ③ Change the Setup Disk2 when [Please insert the disk labeled 'Disk 2'....] window displayed.
- (4) Click the OK button when [Welcome to the AJ-D200 installation program] window displayed.



⑤ Click the Computer picture button in the installation start [Begin the installation by....] window, the setup system will proceed to load the files to Aj_D200 folder under the Program Files in the C: Drive.

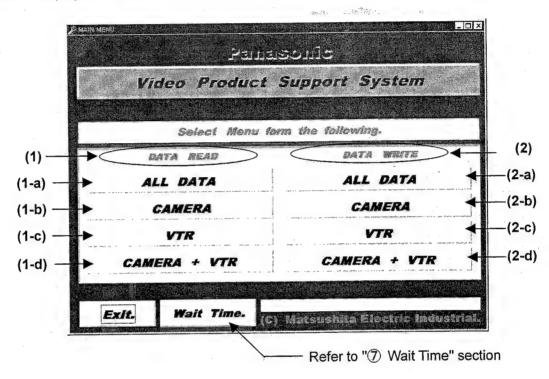


- (6) Change the Setup Disk3 when [Please insert the disk labeled 'Disk 3'....] window displayed.
- (7) Click the OK button in the [Aj_D200 Setup was completed successfully] window.



3-2. Operation

- ① Click the Start button on the Windows95 taskbar, and select Program→Aj-D200 then click it, the Communication software will be start-up.
- ② Select the Serial Port of the connected 9pin cable on the PC in the 「Select Serial Port」 window.
- 3 Main Menu is displayed as below.



(1) DATA READ

(1-a): Store the All adjustment and Menu setting data from the AJ-D200 to the PC.

(1-b) : Store the Camera adjustment data from the AJ-D200 to the PC.

(1-c): Store the VTR adjustment data from the AJ-D200 to the PC.

(1-b) : Store the Camera and VTR adjustment data from the AJ-D200 to the PC.

(2) DATA WRITE

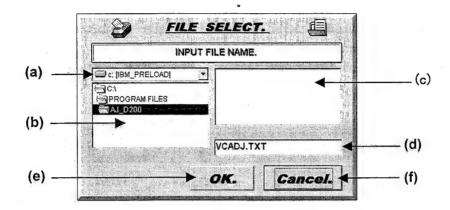
(2-a): Write the All adj. and Menu setting data from the PC file to the AJ-D200.

(2-b) : Write the Camera adjustment data from the PC file to the AJ-D200.

(2-c): Write the VTR adjustment data from the PC file to the AJ-D200.

(2-b): Write the Camera and VTR adjustment data from the PC file to the AJ-D200.

4 FILE SELECT window: After selected the item of DATA READ or DATA WRITE.



(a): Drive List Box ⇒ Selection of the Drive to save or read file.

(b): Directory List Box ⇒ Selection of the Directory to save or read file.

(c): File List Box ⇒ Selection of the file.

* Default file name (ordinary set file name as below)

ALL DATA: ALLDATA. TXT CAMERA: CAMADJ. TXT

VTR:

VTRADJ. TXT

CAMERA+VTR:

VCADJ. TXT

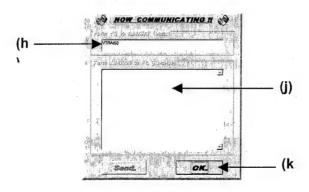
(d): File Text Box ⇒ Input the file name.

* Type "*.TXT" in this box, when read a file except for default set.

(e): OK button ⇒ Fix the Read or Write file name and proceed the file checking.

(f): Cancel button ⇒ Invalidate the selected file, then back to the Main Menu.

(5) **COMMUNICATION PROCESS window**: After clicked the OK button as shown in above (f).



(h): If selected items on the DATA WRITE side, displayed command and sends data to the AJ-D200.

(j): If selected item on the DATA READ side, displayed receives data from the AJ-D200.

(k): [STOP] is displayed during transmission, and click the this button will be interrupt the transmission process. After completed transmission, displayed change to [OK] and click it to back the Main Menu.

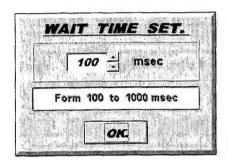
© COMMUNICATION ERROR window: The Data Write Error window displayed when unmatched the send data in the PC and received data of the AJ-D200 during data file writing process.



Retry.: Re-send the data.

Cancel: Back to Main Menu.

WAIT TIME SET window: Be able to set a waiting time between data line and next data line. Setting value is 100ms ~ 1000ms (default set 100ms)₀

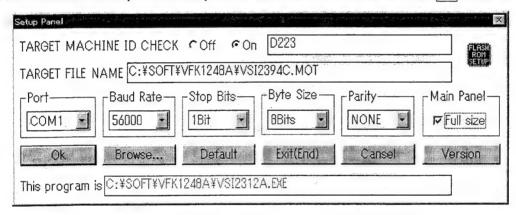


XIf data write error appear, try to increase the wait time.

3-3. Flash ROM Version-up

The all data should be store in a file when perform version-up for the Flash ROM. This ROMWRITER software will delete all data in the Flash ROM.

- 1. Click the Start button on the Windows95 taskbar, and select Program→Aj-D200 then click it, the Communication software will be start-up.
- 2. Select "ALL DATA" in the "DATA READ" side and save the adjustment and menu data to the PC.
- 3. Turn OFF the unit, open the left side panel and set the SW1 to WRITE side on the MAIN C.B.A..
- 4. Turn ON the unit, confirm the three LED are light on in the View Finder.
- 5. Start-up the Flash ROM writer software (VFK1248A).
 - 1) Open the VFK1248A folder with explore.
 - 2) Double click the VSI2312A application file.
- 6. Set communication set-up in the Setup Panel as shown in below, then click OK button.



TARGET MACH. ID CHECK:

On, Type "D223"

TARGET FILE NAME: Click Browse... button and select new software *.MOT.

Port: COM1 or COM2

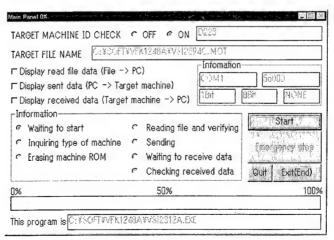
Baud Rate: 56000

Stop Bit: 1Bit

Byte Size: 8Bit

Parity: None

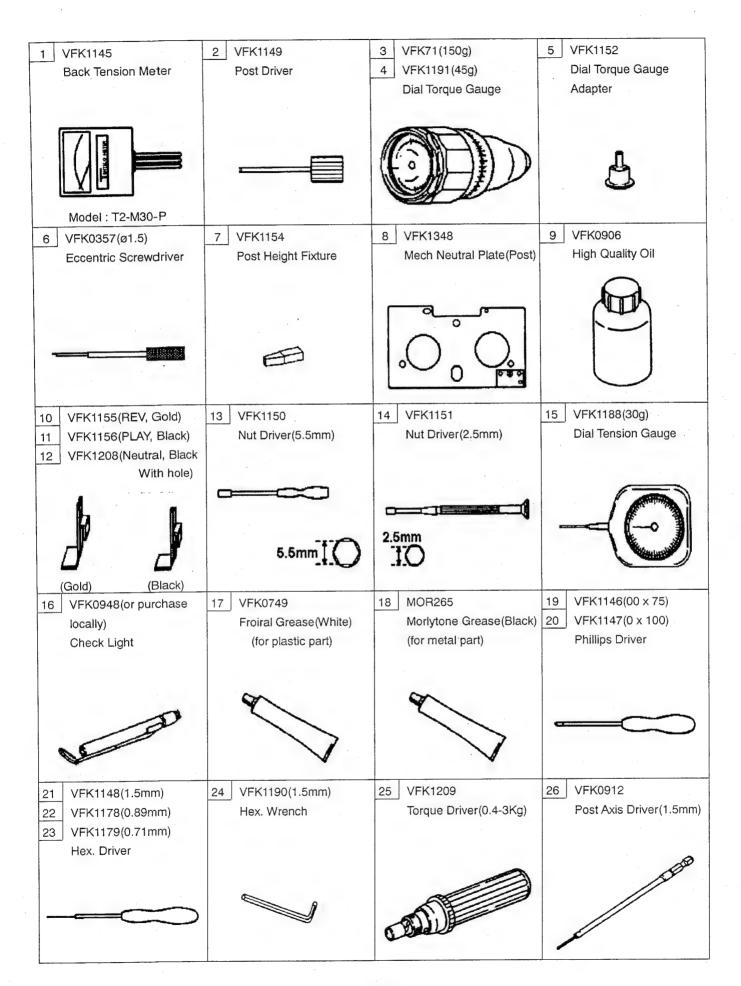
Main Panel: Full size check



- 7. Click the Start button to load a software.
- 8. After completed loading, turn OFF the unit and set the SW1 to NORMAL side.
- 9. Turn ON the unit and start-up the communication soft again.
- 10. Select "ALL DATA" in the "DATA READ" side, and write the saved data to the AJ-D200.

4. Tool List

Fig	ITEM	PART No.	JIG & EQUIPMENT	AJ-D700	AJ-D230	Remark
1	Jig Tool	VFK1145	Back Tension Meter (T2-M30-P)	yes	yes	
2		VFK1149	Post Driver	yes	yes	
3		VFK71	Dial Torque Gauge(150g)	yes	yes	
4		VFK1191	Dial Torque Gauge(45g)	yes	yes	
5		VFK1152	Dial Torque Gauge Adaptor	yes	yes	
6		VFK0357	Eccentric Screwdriver(1.5)	yes	yes	
7		VFK1154	Post Height Fixture	yes	yes	
8		VFK1348	Mech. Neutral Plate (Post)	no	yes	
9	,	VFK0906	High Quality Oil	yes	yes	
10		VFK1155	Neutral Position Tool (Gold)	yes	yes	
11		VFK1156	Neutral Position Tool (Black)	yes	yes	
12		VFK1208	Neutral Position Tool (Black w/Hole)	yes	yes	
13		VFK1150	Nut Driver (5.5mm)	yes	yes	
14		VFK1151	Nut Driver(2.5mm)	yes	yes	
15		VFK1188	Dial Tension Gauge (30g)	yes	yes	
16		VFK0948	Check Light	yes	yes	
17		VFK0749	Froiral Grease (for plastic)	yes	yes	
18		MOR265	Morlytone Grease (for metal)	yes	yes	
19		VFK1146	Philips Driver (Fine)(00-75)	yes	yes	
20	·	VFK1147	Philips Driver (Fine)(0-100)	yes	yes	
21		VFK1148	Hex. Driver (1.5)	yes	yes	
22		VFK1178	Hex. Driver (0.89)	yes	yes	
23	_	VFK1179	Hex. Driver (0.71)	yes	yes	
24		VFK1190	HEX. Wrench	yes	yes	
25		VFK1209	Torque Driver (0.4-3Kg)	yes	yes	
26		VFK0912	Post Axis Driver (1.5mm)	yes	yes	
27		DAQ-12	A/D Board	yes	yes	Purchase locally
28		VFM3580KL	Alignment Tape (No.1)	no	yes	(NTSC only)
29	-	VFM3581KL	Alignment Tape (No.2)	no	yes	(NTSC only)
30	_	VFM3582KL	Alignment Tape (No.3)	no ·	yes	(NTSC only)
31	_	VFM3680KL	Alignment Tape (No.1)	no	yes	(PAL only)
32		VFM3681KL	Alignment Tape (No.2)	no	yes	(PAL only)
33		VFM3682KL	Alignment Tape (No.3)	no	yes	(PAL only)
34		AJ-CL12LP	Cleaning Tape	no	yes	SALES
35		VFK1159	LISTA Software	yes	yes	
36		VFK1186	LISTA CABLE	yes	yes	
37		VFK1340	PC-EVR Adjustment Software	no	Ok	(PAL only)
38	The same of the sa	VFK1341	CC Filter (LB40)	no	Ok	
39	_	VFK1342	CC Filter (LB80)	no	Ok	(NTSC only)
40		VFK1343	CC Filter (LA40)	no	Ok	(PAL only)
41		VFK1347	CC Filter (LB120)	no	Ok	
42		VFK1345	CC Filter Holder	no	Ok	
43		VFK1346	CC Filter Holder Step Down Ring	no	Ok	
44		VFK1158	B.E.R. Counter Tool	yes	Ok	
45		VFK1185	B.E.R. Counter Cable	yes	Ok	
46		VFK1248A	Flush ROM Version-Up Software	no	yes	
47			9 Pin Reverse (Cross) Cable	no	yes	Purchase locally
48		VFK1423	Tape Sensor Cassette	no	yes	
49		VFK1425	RS232C Comm. Software	no	no	



	•		
27 DAQ-12	28 VFM3580KL	31 VFM3680KL	34 AJ-CL12LP
A/D Converter Board	29 VFM3581KL	32 VFM3681KL	Cleaning Tape
(For Quatech. Purchase	30 VFM3582KL	33 VFM3682KL	(L cassette)
Locally)	DVC PRO Alignment Tape	DVC PRO Alignment Tape	
Locally)	(L cassette)	(L cassette)	
	(L cassette)	(2 00000110)	
	Paramie DVCPRO	Paramia DVCPRO	Promotion DVCDAO
		The state of the s	
55 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
05 1/5/4450	37 VFK1340	38 VFK1341(LB40)	42 VFK1345
35 VFK1159		39 VFK1342(LB80)	CC Filter Holder
LISTA Software	PC-EVR Adjustment		43 VFK1346
36 VFK1186	Software	40 VFK1343(LA40)	
LISTA Cable		41 VFK1347(LB120)	CC Filter Holder Step
		CC Filter	Down Ring
		(3/4)	
•			
44 VFK1158	46 VFK1248A	48 VFK1423	49 VFK1425
		Tape Sensor Cassette	RS232C Comm. Software
B.E.R. Counter Tool	Flush ROM Version-Up	Tape Gensor Cassette	1,02020 00,11111 00,11111
45 VFK1185	Software		
B.E.R. Counter Cable			
·			
111		Personia DVCPRO	h
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		·	

5. Alignment Tapes

DVCPRO Alignment Tape

VFM3580KL(NTSC)

Time	Vide	90	РСМ		CUE	
(min)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar SMPTE(75%)	Composite Video Level Confirmation			1kHz 0VU	CUE Level
7:00	Color Bar Full Field(75%)	Component Video Level Confirmation	1kHz - 20dB	Audio Level Confirmation		Confirmation
14:00	H Sweep	Frequency Response			6kHz 0VU	A/C Head Azimuth
18:00 22:00 26:00	Bowtie(500k) Pulse&Bar Area Markers	Y/C Timing Y/C Timing			-10dB, 1kHz 50Hz ~ 15kHz	Frequency Response
30:00						

VFM3581KL(NTSC)

Time(min)	Signal		
0:00~20:00	ITI Pattern		

VFM3582KL(NTSC)

Time(min)	Signal		
0:00~10:00	X Value		

VFM3680KL (PAL)

Time	Video			PCM	CUE	
(min)	Signal	Purpose	Signal	Purpose	Purpose Signal Purpo	
0:00	Color Bar	Video Level	-		1kHz	CUE Level
	100%	Confirmation			Reference	Confirmatio
10:00	H Sweep	Frequency	1kHz	Audio Level		
		Response	-18dBu	Confirmation		
14:00	Area Markers				6kHz	A/C Head
					Reference	Azimuth
18:00	Bowtie(500k)	Y/C Timing				
					·	
22:00	Pulse & Bar	Y/C Timing			1kHz	Frequency
					300Hz~6kHz	Response
26:00	Multi Pulse	Y/C Timing				
30:00						

VFM3681KL (PAL)

Time (min)	Signal		
0:00 ~ 20:00	ITI Pattern		

VFM3682KL (PAL)

Time (min)	Signal		
0:00 ~ 10:00	X Value		

6. Recommended Test And Service Equipment

NTSC

Part No.	Name	Remark
TSG130A(OP.04)	Analog Component Signal Generator	TEKTRONIX
	Oscilloscope	
1750,1760(OP.SC) or 1780R	WFM Monitor	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
	Audio Analyzer	

PAL

Part No.	Name	Remark			
TSG131A(OP.04)	Analog Component Signal Generator	TEKTRONIX			
	Oscilloscope				
1751,1761(OP.SC)	WFM Monitor	TEKTRONIX			
or 1781R					
	Digital Volt Meter				
	Frequency Counter				
	VTVM	Frequency Band Width 4Hz-500KHz			
	Audio Analyzer				

SECTION 3

MAINTENANCE/DISASSEMBLY PROCEDURE & MECHANICAL ADJUSTMENT

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Maintenance Schedule

Na	Name	Part Number	Using Hours					
No.			2,000	4,000	6,000	8,000	10,000	12,000
-	Tape Path Cleaning			△ Clean the Tape Path at each 500 hours				
1	Cylinder Unit	VEG1499	•	•	•	•	•	0
2	Pinch Arm Unit	VXL2835		•=		•=		0
3	Cleaning Arm Unit	VXL2924	•	•	•	•	•	0
4	S Reel(Rotor Unit)	VEM0658			•			0
5	T Reel(Rotor Unit)	VEM0659			•			0
6	S Brake Arm	VXL2755			•			0
7	T Brake Arm	VXL2756			•			0
8	Thrust Screw Unit	VXQ 0556			• 🛦			0
-	Mech. Chassis Unit	VXY1433						•
-	1.5" CRT(EVF)	M04KYS07WB	 5,000 hours by the operation time 					

Note: Using Hours are based on the Drum Rotation hours.

Using hours are recommendation. It may depend on temperature, humidity or dusty.

Using hours are listed as the reference of maintenance. They do not mean guarantee hours.

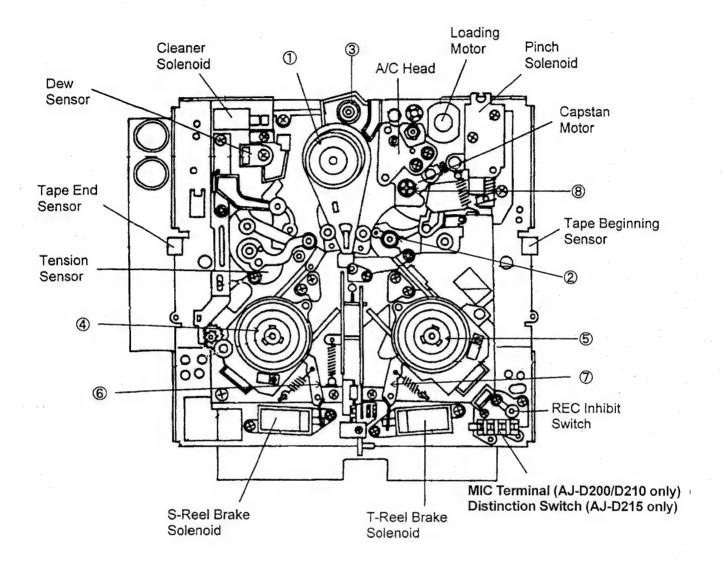
© : These parts included in Mech. Chassis Unit, Replacing Mech. Chassis Unit is recommended.

■ : The lubrication is necessary when replacing the Pinch Arm Unit.

△ : This mark means cleaning is necessary.

▲ : The lubrication is necessary when replacing the Thrust Screw Unit.

Parts Location



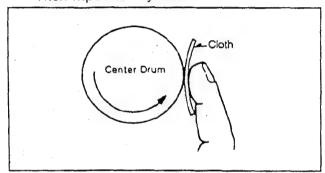
Cleaning Procedures

Make sure the power is OFF before cleaning. Use ethanol (more than 99%) as cleaning liquid.

1. Cleaning of Head Chips (Daily)

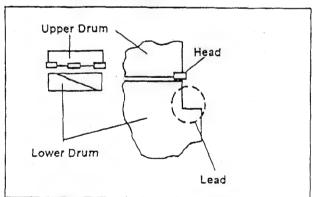
Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion.

Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



2. Cleaning of Drum Lead (Weekly)

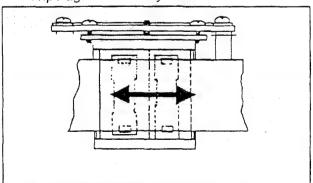
Be careful not touch a head chip. Clean the Drum Lead with a pick



3. Cleaning of A/C Head (Weekly)

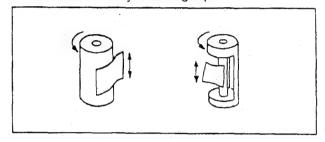
Wipe the A/C Head with a cloth soaked by cleaning liquid.

Wipe again with a dry cloth.



4. Cleaning of Pinch Roller and Capstan (Weekly)

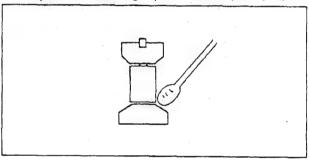
Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



5. Cleaning of Post (Weekly)

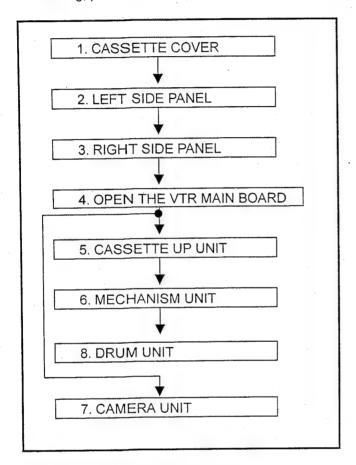
Wind a cloth on a pick. Wipe each post dry with that pick .

Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



DISASSEMBLY PROCEDURE

This flow chart indicates the disassembly steps the cabinet pares, P.C. Boards and Mechanism Unit in order to access to items to be serviced. When reinstalling, perform the steps in the reverse order.



DISASSEMBLY METHOD

1. Removal of Cassette Cover

Loosen the 2 screws (A) and slide the cover upward then remove it.

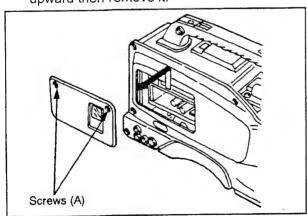


Figure 1-1

2. Removal of Left Side Panel

After removing the cassette cover, loosen the 7 screws (B) and remove the panel.

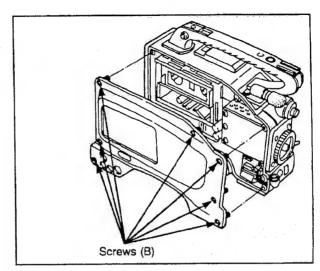


Figure 1-2

3. Removal of Right Side Panel

Loosen the 7 screws (C) carefully disconnect the P10 connector on the VTR Main C.B.A.

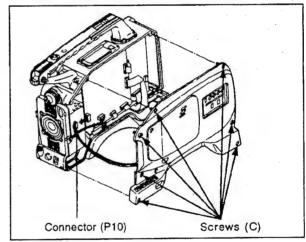


Figure 1-3

4. Open the VTR Main & Power C.B.A.

After removing the right side panel, unscrew the 2 screws (D), 1 screw (E) on the VTR Main board and 3 screws (F) 1 screws (G) on the Power board, then lay down the boards.

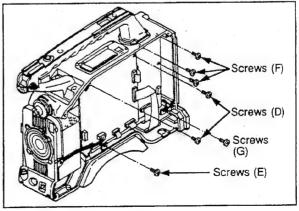


Figure 1-4

5. Removal of Cassette Up Unit

After removing the left side panel, unscrew the 4 screws (H) and remove it.

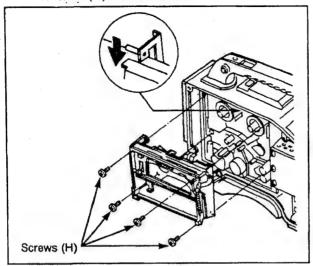


Figure 1-5

6. Removal of Mechanism Unit and Servo C.B.A.

After removing the loth side panel, disconnect the P3001 felxible cable on the VTR Main board.

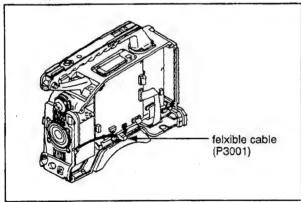


Figure 1-6

Open the board, Disconnect the P2615 connector and P2619 felxible on cable on the VTR Main board.

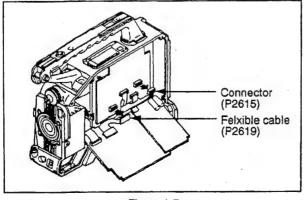


Figure 1-7

Unscrew the 2 screws (J) and slightly pull the AV Out unit then disconnect the P1005 on the Real Jack board.

Unscrew the 3 screws (K), remove the mechanism chassis and the Screw board with care not to scratch the connectors and cables.

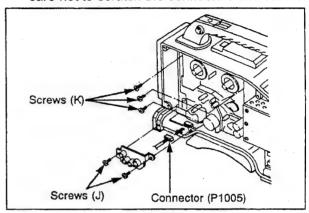


Figure 1-8

7. Removal of Camera Unit

After removing the both panels, disconnect the P6601, P6602 felxible cables and the P6605 connector.

Unscrew the a screw (L) on the test connector board.

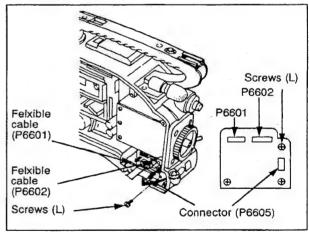


Figure 1-9
Disconnect the P7 connector and the P1 felxible cable on the VTR Main board.

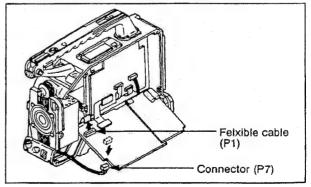


Figure 1-10

Unscrew the 4 screws (M) and pull out the camera unit.

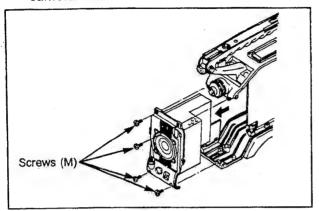


Figure 1-11

8. Removal of Drum Unit

After removing the mechanism unit, disconnect the P613 felxible cable. Hold the top of the drum unit and unscrew the 3 screw (N).

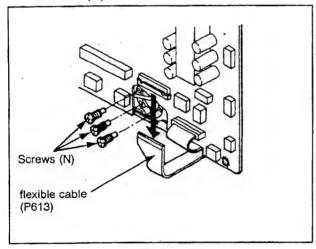


Figure 1-12

Remove the drum unit with care not to scratch the cables.

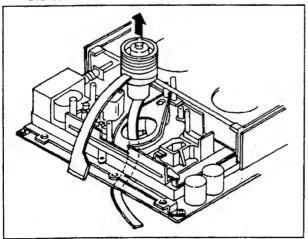


Figure 1-13

9. Emergency Eject

If the cassette tape cannot be ejected with pressing EJECT button or the cassette tape may be damaged by ejecting it, the cassette tape should be ejected out by the following steps.

- 1. Turn the power off.
- Open the rubber cap above the GEN LOCK IN connector. Push in and rotate the red screw counterclockwise.
- 3. The tape is unloaded with click.
- 4. Continue until the cassette tape is ejected.

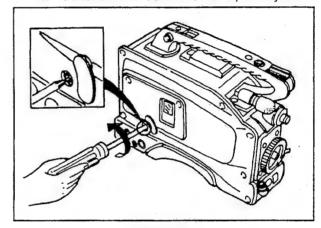


Figure 1-14

Mechanical Parts Replacement and Adjustment Procedures

General

When mechanical parts are replaced, pay attention to the following notes.

- 1. Turn power off before replacing any part.
- 2. If any adjustment is required after replacing parts, perform the required adjustments.
- 3. Use proper fixture tools.
- Make sure to clean the parts after replacement.
 Also when the mechanical parts are replaced,

follow the replacement procedure.

1. Drum Unit Replacement

(Removal of Mechanism Unit)

Refer to the "Section 2. Disassembly procedures" Item 1 to 6 and remove the Mechanism Unit and the Servo C.B.A.

(Removal of Cylinder Unit)

- 1. Remove the T1 Guide and Cleaning Arm Unit (Refer to item 12).
- Disconnect P3001, P613 on the Servo C.B.A. and hold the top of the Drum Unit then remove 3 screws and carefully pull out the Drum Unit with care not to scratch the flexible cables.

Note: Be careful when removing the flexible

cable from the connector. Refer to the way to remove the connector as shown

in Figure M1.

Note: Never touch the cylinder with a finger

directly when pulling out the Drum unit.

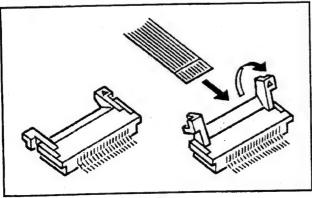


Fig. M1

(Installation)

- 1. Install the new Drum Unit according to the opposite procedures to removing.
- 2. After installing T1 Guide, T1 Guide position adjustment should be performed (Refer to item 12-1).

Note: When installing the Drum Unit, the pin on Mech. Chassis should match hole of Drum Unit as shown in Figure M2.

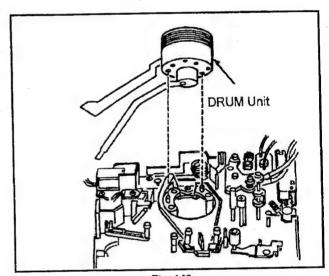


Fig. M2

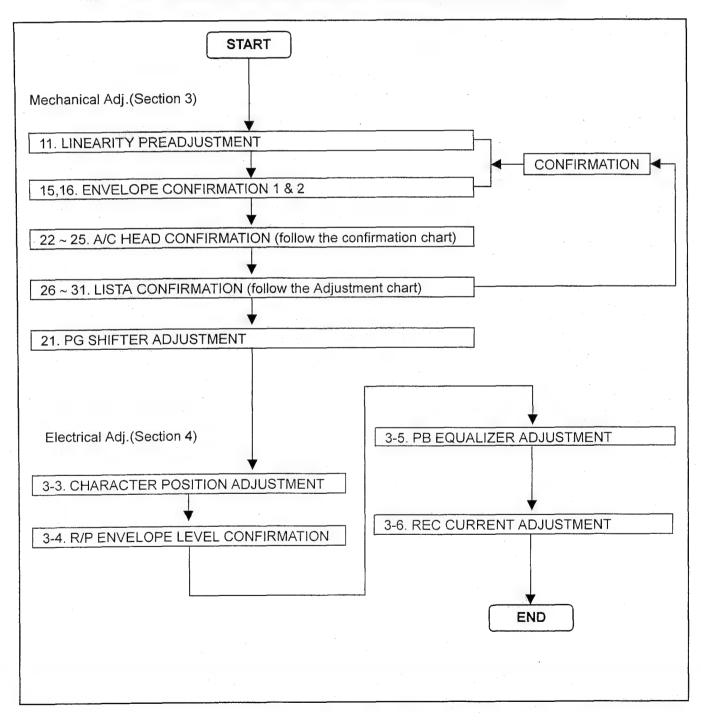
1-1. Adjustment Flow Chart After Drum Unit Replacement

1. After changing the Drum Unit, perform the following steps.

Adjustment Flowchart After Drum Unit & Mech. Chassis Replacement

Note: Confirm the tape path linearity before head replacement.

The number indicated on the chart below is item number on the Service Manual.



2. A/C Head Replacement

2-1. Replacement

* Required tools: Nut Driver (5.5m/m)(VFK1150) Hex Driver (VFK1148) Hex Wrench (VFK1190)

(Removal)

- Remove the Cassette Cover, Left Side Panel and the Cassette Up Unit.
- Loosen the hex. screw (B) and remove the Nut (C). Pick up the Head Height Adjustment Spring and then remove the A/C Head Unit as shown in Figure M5.

Point: Memorize the height of Nut (C) before removing the Nut (C).

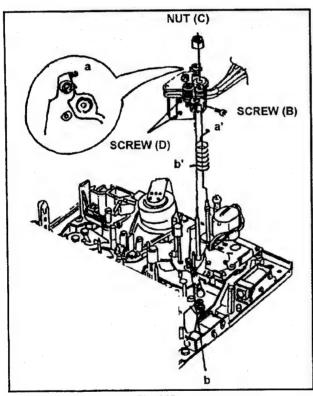


Fig. M5

 Remove the 2 screws (A). Disconnect the connector P1005 on the Rear Jack C.B.A. and P600 on the Servo C.B.A. and then remove the A/C Head from the A/C Head Plate.

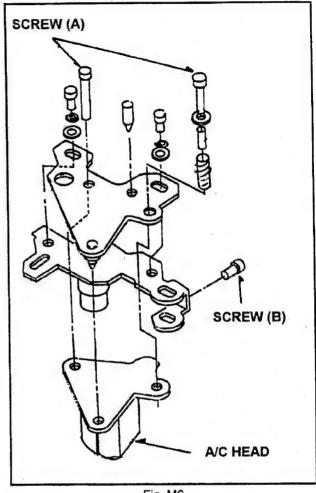


Fig. M6

- 5. Remove 2 screws (D) to remove the Shield Cover as shown in Figure M5.
- Unsolder the lead wires one by one. (Don't unsolder all wires at the same time.)

(Installation)

- Remove the Shield Case from the New A/C Head and solder the lead wires to New A/C Head (Refer to Figure M7).
- 2. Re-install the shield case to A/C Head.
- 3. Install the A/C Head to A/C Head Plate and tighten 2 screws (A) so that A/C Head is parallel to A/C Head Plate.
- 4. Install the A/C Head Unit.
- 5. Put on the Head Height Adjustment Spring and tighten the Nut (C).
- 6. Clean the surface of the A/C Head.

Note:

After installing, Mechanical and Electrical Adjustments should be

performed.

The hex screw (B) is kept loose until the A/C Head Height Adjustment is completed.

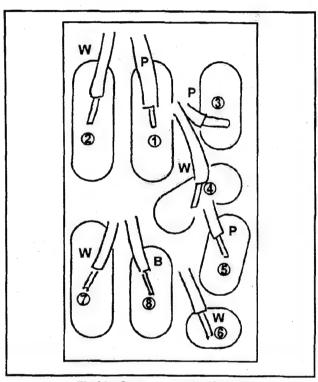
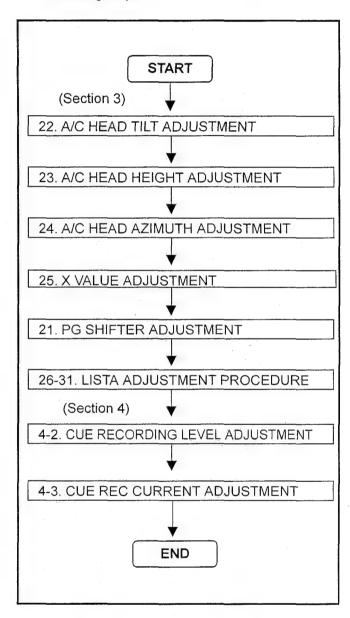


Fig.M7 Connection of A/C Head

A/C Head Side	Cabl	e Color	Connector No.
1	PINK	YELLOW	
2	WHITE		
. 3	PINK	RED	P1005
4	WHITE		
5	PINK	GREEN	
6	WHITE		
7	WHITE	YELLOW	P600
8	BLACK		

2-2. Adjustment Flowchart After A/C **Head Replacement**

After replacing the A/C Head, perform the following steps.



3. Reel Table Replacement

3-1. Supply Reel Rotor Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN
 C.B.A.
- Disconnect the connector P614 on the Servo C.B.A.
- 3. Turn the Emergency Gear until S1 Post moved center loading position and remove the S5 Post (Refer to item 14).
- 4. Pull up the Arm Return Spring on the Connection Arm Angle Side and disconnect the Connection Arm Angle.
- 5. Unscrew the 2 screws (C) to remove the Supply Reel Stopper as shown in Figure M8.
- Push the Reel Table to middle position and unscrew the 2 screws (D) to remove the Supply Reel Rotor Unit as shown in Figure M8.
- 7. Remove the 2 Cut Washers to remove the Idler Arm Unit.

3-2. Take Up Reel Rotor Unit Replacement

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connector P615 on the Servo C.B.A.
- 3. Unscrews the 2 screws (E) and then remove the Take Up Reel Stopper.
- Push the Reel Table to middle position and unscrew the 2 screws (F) to remove the Take Up Reel Rotor Unit as shown in Figure M8.

CAUTION: Don't touch FG portion with the magnetized screw driver.

(Installation for both unit)

- 1. Install the new Reel Rotor Unit according to the opposite procedures to removing.
- Adjust the "4 Reel Torque Adj." and confirm
 "2. Main Brake Torque" in the Section 3.

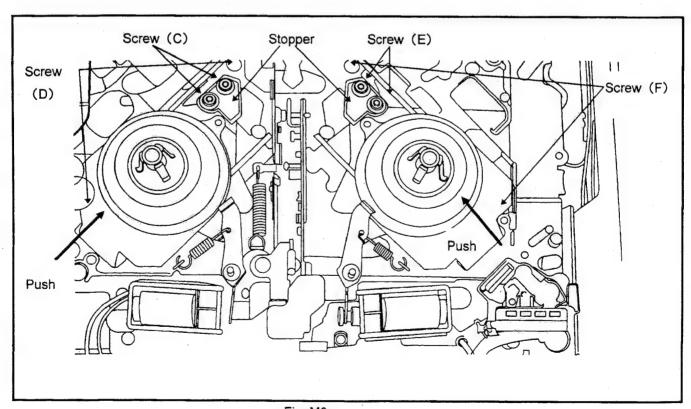


Fig. M8

4. Pinch Solenoid Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN
 C.B.A.
- 2. Disconnect the connector P610 on the Servo C.B.A.
- 3. Unscrew the 2 screws (A) and remove the Pinch Solenoid Unit as shown in Figure M9.
- 4. Unscrew the 2 screws (B) and remove the Pinch Solenoid Angle.
- Unscrew the 2 screws (C) and remove the Pinch Solenoid from the Pinch Solenoid Base.

(Installation)

- 1. Install the new Pinch Solenoid according to the opposite procedures to removing.
- 2. After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

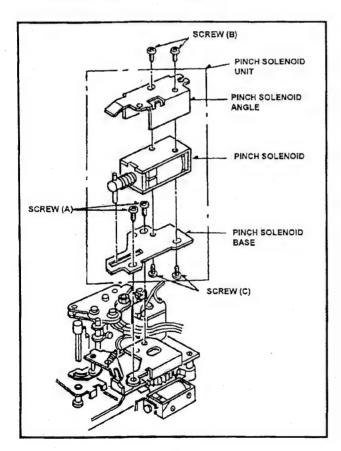


Fig. M9

5. Pinch Arm Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Remove the Pinch Solenoid Unit (Refer to item 4).
- Remove the Cut Washer (A) to remove the Pinch Solenoid Lever as shown in Figure M10.
- 4. Remove the Cut Washer (B) to remove the Pinch Arm Unit as shown in Figure M.10.

(Installation)

- Install the new Pinch Arm Unit according to the opposite procedures to removing.
- 2. After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

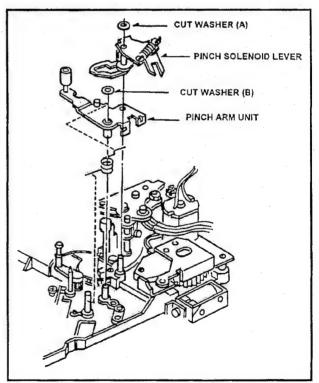


Fig. M10

6. Loading Motor Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- Disconnect the connector P611 on the Servo C.B.A.
- 3. Remove the Pinch Solenoid and Pinch Solenoid Lever.(Refer to item 4 & 5).
- 4. Unscrew the screw (B) to remove the Emergency Shaft as shown in Figure M11.
- 5. Unscrew the 2 screw (C) to remove the Loading Motor Unit as shown in Figure M11.
- 6. Unscrew the 2 screw (D) to remove the Loading Motor Neutral Unit as shown in Figure M11.

(Installation)

- Install the new Loading Motor Unit according to the opposite procedures to removing.
- 2. Install the Pinch Solenoid Unit. After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

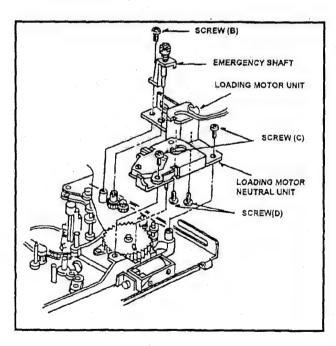


Fig. M11

7. Mode Select Switch Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN
 C.B.A.
- 2. Disconnect the connector P612 on the Servo C.B.A.
- Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit (Refer to item 4 to 6).
- Remove the screw (D) to remove the Mode Select Switch Unit from Loading Motor Neutral Unit as shown in Figure M12.

(Installation)

 Install the New Mode Select Switch Unit according to the opposite procedures to removing.

Note: Confirm that the pin of Mode Switch Unit matches groove of Main Cam Gear.

 After installing, Pinch Solenoid Position Adjustment is required. (Refer to "1. Pinch Solenoid Adj." in the Section 3).

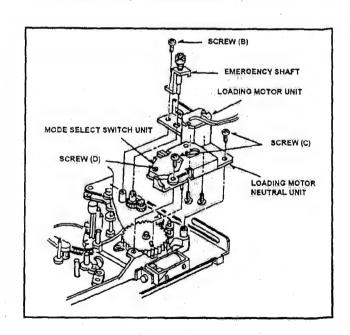


Fig. M12

8. Main Cam Gear Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit (Refer to item 4 to 6).
- 3. Remove the Main Cam Gear as shown in Figure M13.

(Installation)

- Install the Main Cam Gear so that the pin of Main Cam Arm Unit (※) matches the groove position of Main Cam Gear as shown in Figure M13.
- 2. Follow the opposite procedures to removing.
- 3. After installing, Pinch Solenoid Position Adjustment is required, (Refer to "1. Pinch Solenoid Adj." in the Section 3).

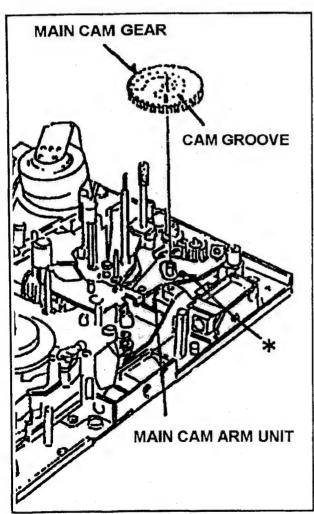


Fig. M13

9. Brake Arm & Brake Solenoid Replacement

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connectors P605, P608 on Servo C.B.A.
- 3. Unscrew the 2 screws (A) to remove the Supply Brake Solenoid and unscrew the screw (B) to remove the Solenoid base as shown in Figure M14.
- 4. Remove the cut washer (C) to remove the Supply Brake Arm.
- Unscrew the 2 screws (D) to remove the Take Up Brake Solenoid and unscrew the screw (E) to remove the Solenoid base as shown in Figure M14.
- 6. Remove the cut washer (F) to remove the Take Up Arm.

(Installation)

 Install the new cassette Brake Base Unit according to the opposite procedures to removing.

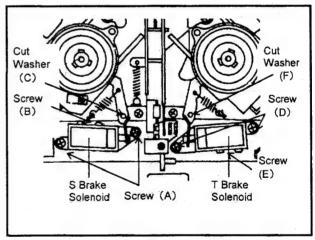


Fig. M14

 After installing, the Brake Solenoid Position Adjustment required (Refer to item 16 in this section).

10. MIC Base Unit Replacement

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- Disconnect the connector P607 on Servo C.B.A.
- Unscrew the 2 screws (A) and remove the MIC Base Unit as shown in Figure M15.

(Installation)

- Install the new MIC Base Unit according to the opposite procedures to removing.
- Confirm that the M cassette touches to MIC Base Unit properly.

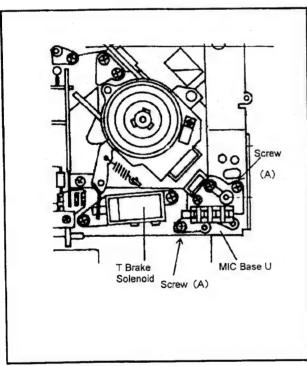


Fig. M15

11. S1 & T1 Post Loading Arm Unit Replacement and Adjustment

(Removal)

- Remove the Cassette Cover, both Side Panel, Cassette Up Unit and open VTR MAIN
 C.B.A.
- 2. Remove the Mechanism Chassis Unit and the Drum Unit.
- 3. Remove the T1 Guide and the Cleaning Arm Unit.
- Turn the Emergency Gear until middle loading position and unscrew the screw (D),(E) as shown in Figure M16.
- 5. Remove the S5 Stopper Base and the Tension Arm Unit (Refer to item 14 & 15).
- 6. Unscrew the screw (A) and remove S1 Post from the Loading Rail as shown in Figure M16.
- Remove the Cut Washer (B) and remove the S1 Loading Arm Unit as shown in Figure M16
- Unscrew the screws (C), and remove the T1
 Post from Loading Rail as shown in Figure M16.
- Remove the T1 Boat Unit from T1 Loading Arm Unit as shown in Figure M16.

(Installation)

- Install the new S1 or T1 Loading Arm Unit according to the opposite procedures to removing. Then S1 Post Loading Arm Unit Phase Adjustment should be performed.
- 2. After installing, confirm that the S1 and T1 Post moves smoothly on the Loading Rail.

(Adjustment)

- Adjust S1 Post Loading Arm Unit so that the hole (A) should match hole (B) as shown in Figure M16.
- When installing the T1 Boat Unit, the hole (A) should match hole (B) as shown in Figure M17.
- 3. Tension Arm, Post Height Pre-Adjustment and Linearity Adjustment (Refer to the Section 3) should be performed.

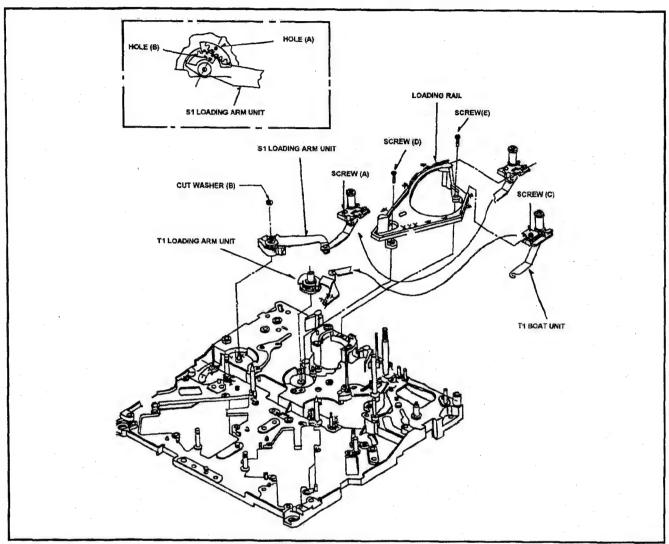


Fig. M16

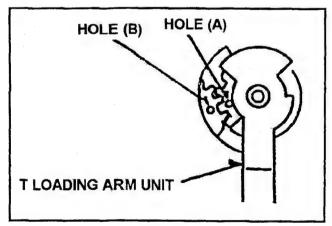


Fig. M17

12. Cleaning Arm Unit Replacement

(Removal)

- Remove the Cassette Cover and Left Side Panel.
- Unscrew the 2 screws (A) to remove the T1 Guide.
- 3. Pick up the tip portion (B) of Cleaning Arm Unit and remove the spring from Cleaner Arm Unit. Then remove the Cleaning Arm Unit as shown in Figure M18.

(Installation)

- Install the cleaning Arm Unit, then hang the spring on Cleaning Arm Unit.
- 2. Install the T1 Guide and tighten 2 screws (A).
- 3. Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated when the cylinder is rotated by hand,.
- 4. T1 Guide position adjustment should be performed.

12-1. T1 Guide Position Adjustment

Place the unit in Loading completion mode.

<How to Make the No Tape Loading>

- Set a black tube to TAPE LED sensor.
- Turn on the power and then the VTR begins loading without tape. And unplug DC input to the unit.
- Observe the clearance (B) between T1 Guide and T1 post as shown in Figure M19. And make sure that it is within 0.2 to 0.5mm.
- 2. If not loosen the 2 screws (A) and adjust the position of T1 Guide by moving to arrow direction (G ⇔ G) so that the clearance (B) is within specification. And tighten the 2 screws (A).

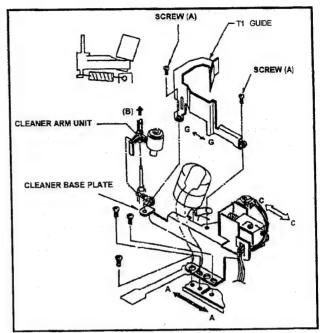


Fig. M18

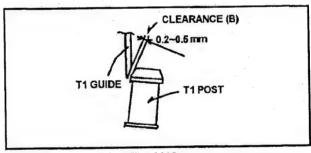


Fig. M19

13. Cleaner Solenoid Replacement and Adjustment

(Removal)

- Remove the Cassette Cover both Side Panel, Cassette Up Unit and open VTR MAIN C.B.A.
- 2. Disconnect the connector P618 on the Servo C.B.A.
- Unscrew the 2 screws (A) and remove the Cleaner Solenoid Unit as shown in Figure M20
- 4. Unscrew the 2 screws (B) and remove the Cleaner Solenoid as shown in Figure M20.

(Installation)

- Install the new Cleaner Solenoid according to the opposite procedures to removing.
- 2. After installing, Cleaner Solenoid Position adjustment should be performed as follows.

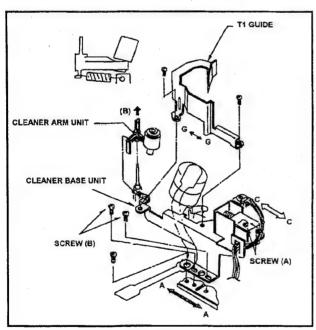


Fig. M20

13-1. Cleaner Solenoid Position Adjustment

- Required Tools : Eccentric Driver (VFK0357)
- 1. Press the iron core of Cleaner Solenoid.
- 2. Observe the clearance (D) between Cleaning Arm Unit and Cleaner Base Plate as shown in Figure M21. And make sure that it is within 0.5 to 0.7mm.
- 3. If not, loosen the 2 screws (A) and adjust the position of Cleaner Solenoid Unit by moving to arrow direction (C ⇔ C) with eccentric driver so that the clearance (D) is within specification, And tighten the 2 screws (A).
- 4. After adjustment, confirm as follows.
- Press the iron core of Cleaner Solenoid to release, and then return the Cleaning Roller to original position.
- 6. Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated when the cylinder is rotated by hand.

Note: If removing the cleaner Base Plate, Cleaner Roller Position Adjustment should be performed.

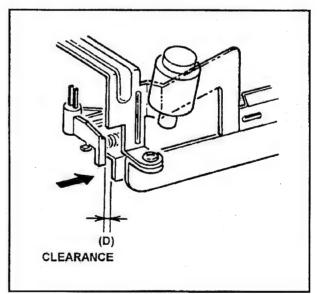


Fig. M21

13-2. Cleaner Roller Position Adjustment

- * Required Tools : Eccentric Driver (VFK0357)
- Observe the clearance (A) between Cleaner Roller and Cylinder Unit as shown in Figure M22. And make sure that it is within 1.0 to 1.2mm.
- If not, loosen the 2 screws (B) and adjust the position of Cleaner Base Plate by moving to arrow direction (A ⇔ A) with the Eccentric Driver so that the clearance (A) is within specification. And tighten the 2 screws (B).

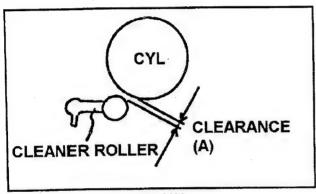


Fig. M22

14. S5 Post Base Unit Replacement

(Removal)

- 1. Remove the Cassette Up Unit.
- 2. Unscrew the screw (A) and remove the S5 Post Base Unit as shown in Figure M23.

(Installation)

- 1. Install the S5 Post Base Unit according to the opposite procedures to removing.
- 2. After installing, Post Height Pre-adjustment and Linearity Adjustment (Refer to the Section 3.) should be performed.

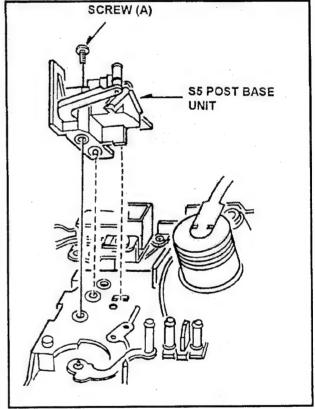


Fig. M23

15. Tension Arm Unit Replacement

(Removal)

- Remove the Cassette Cover and Left Side Panel.
- 2. Remove the Cassette Up Unit.
- 3. Remove the Cut Washer (A) and pick up the Tension Reg. Spring Then remove the Tension Arm Unit as shown in Figure M24.

(Installation)

- 1. Install the new Tension Arm Unit according to the opposite procedures to removing.
- 2. After installing, Tension Arm Adjustment should be performed as follows.

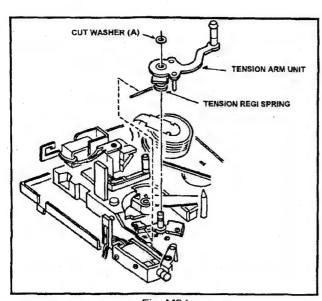
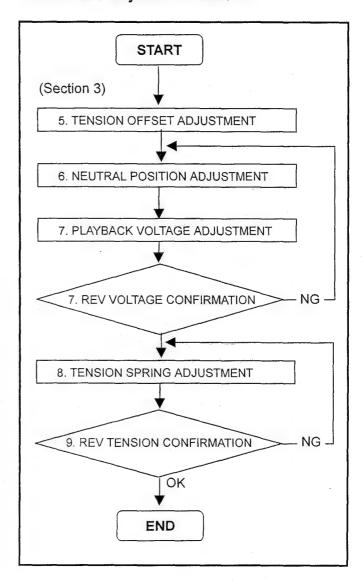


Fig. M24

Tension Arm Adjustment Flowchart



16. Brake Solenoid Position Adjustment.

- 1. Press the iron core of the Brake Solenoid.
- 2. Loosen the 2 screws (A) for S-Brake Solenoid and adjust position of Solenoid unit by moving to slightly left or right so that the clearance (A) is within 0.8 ± 0.2mm.

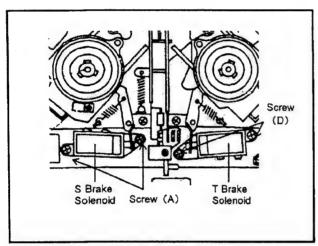


Fig. M25

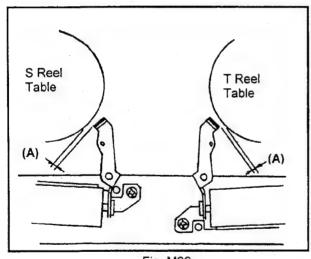


Fig. M26

17. Thrust Adjustment Screw Replacement

- 1. Remove the Thrust Adjustment Screw.
- 2. Enforce cleaning of point department of capstan shaft with an applicator.
- 3. Put the oil (VFK0906) on a new Thrust Adjustment Screw, and install the upper end of the Capstan Housing.
- Turn the Thrust Adjustment Screw slowly to clockwise until the Capstan Rotor just starts turning (separate from the Capstan Rotor).
- 5. Turn the Thrust Adjustment Screw another an angle of 270° from 180°(about 225°) clockwise as shown in the Fig. M8.
- 6. Put the glue (Ex: Three Bond 1401B) on the Thrust Adjustment Screw.
- 7. Confirm whether the Oil Seal doesn't come in contact with the Capstan Housing.

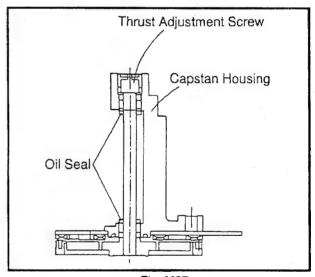


Fig. M27

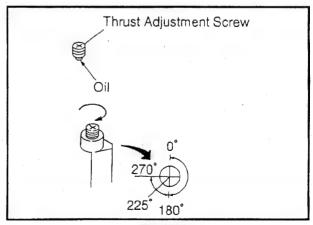
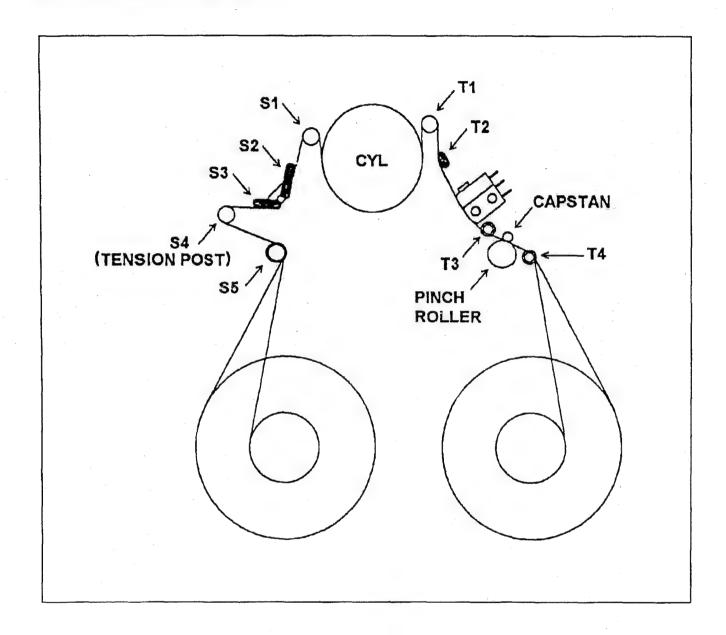


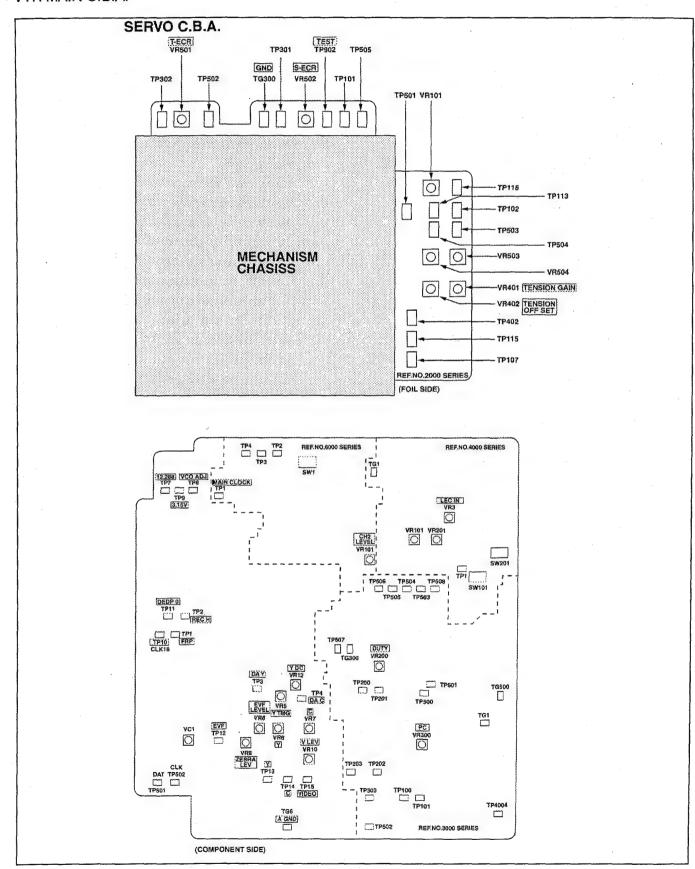
Fig. M28

Mechanical Adjustment Name of tape transportation



TP & VR location

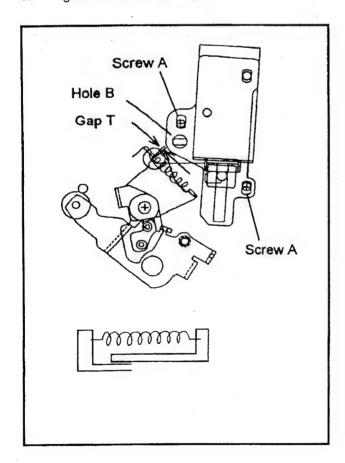
SERVO C.B.A. VTR MAIN C.B.A.



1. Pinch Solenoid Adjustment

SPEC.	T=0.3mm
TEST	Gap T
ADJUST	Screw A, Hole B
MODE	Eject (Power OFF)
TOOL	VFK0357

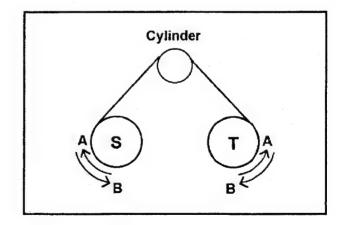
- 1. Confirm the power off.
- 2. Push the pinch roller by hand to be close to capstan.
- 3. Push the pinch solenoid by hand so that the pinch roller contacts capstan.
- 4. Loosen the two screws A.
- 5. Adjust the hole B so that gap T is within specification.
- 6. Tighten the two screws A.



2. Main Brake Torque Confirmation

SPEC.	Direction A: more than 100g
	Direction B : more than 20g
TEST	S Reel, T Reel
MODE	Eject (Power OFF)
TOOL	VFK71, VFK1191, VFK1152

- 1. Confirm the power off.
- 2. Remove the Cassette Up Unit.
- 3. Install the adapter (VFK1152) to the torque gauge (VFK71).
- 4. Put the torque gauge on S Reel.
- 5. Turn the torque gauge to direction A until S Reel slips against brake.
- 6. Confirm the torque is within specification.
- 7, Put the torque gauge on T Reel.
- 8. Turn the torque gauge to direction A until T Reel slips against brake.
- 9. Confirm the torque is within specification.
- 10. Install the adapter (VFK1152) to the torque gauge (VFK1191).
- 11. Put the torque gauge on S Reel.
- 12. Turn the torque gauge to direction B until S Reel slips against brake.
- 13. Confirm the torque is within specification.
- 14. Put the torque gauge on T Reel.
- 15. Turn the torque gauge to direction B until T Reel slips against brake.
- 16. Confirm the torque is within specification.



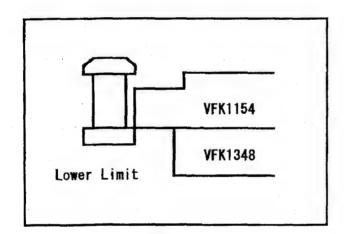
3. Post Height Preadjustment

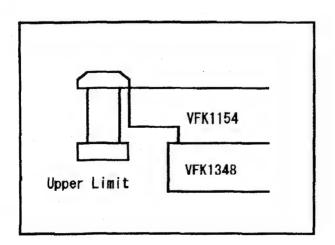
Mode	EJECT (Power OFF)
Tool	VFK1348, VFK1154

- 1. Turn the power OFF and then set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- 2. Install the Mech. Neutral Plate and adjust each post height as shown in figure.

Note. Lower*: Turn S4 and S5 posts 1 round more counterclockwise from lower limit position.

Dont	Limpit	Post Driver
Post	Limit	Post Driver
S4	Lower*	VFK1149
T5	Lower*	VFK1149
Т3	Lower	VFK1151 (2.5mm Nut Driver)
T4	Lower	VFK1151 (2.5mm Nut Driver)





4. Reel Torque Adjustment

BOARD	Servo
SPEC.	20±2mV
TEST	TP301(S), TP302(T), TG300(GND)
ADJUST	VR501(T), VR502(S)
MODE	PLAY
M.EQ	Digital Volt Meter

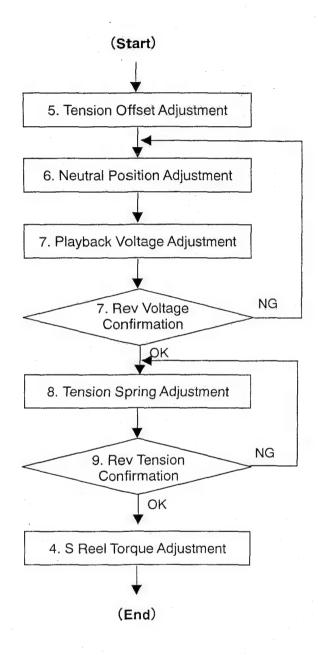
The S Reel Torque adjustment should be perform, after completed the "Tension Adjustment."

- Confirm the power off and make a shortcircuit between TP116 and TP505.
- 2. Turn the power ON and place the unit in no tape loading mode.
- Hold the S-Reel by hand and press the PLAY key.
- 4. Adjust the VR502 so that the TP301 (for S Reel) is within specification.
- Hold the T-Reel by hand and press the PLAY key.
- 6. Adjust the VR501 so that the TP302 (for T Reel) is within specification.
- 7, Make a open-circuit between TP116 and TP505.

Note.

1. Make a tube* by yourself.

Tension Adjustment Flowchart



5. Tension Offset Adjustment

BOARD	Servo
SPEC.	2,5 ± 0.05V
TEST	TP402
ADJUST	VR402
MODE	EJECT
M.EQ	Digital Volt Meter

1. Adjust the VR402 so that the DC voltage at TP402 is within specification.

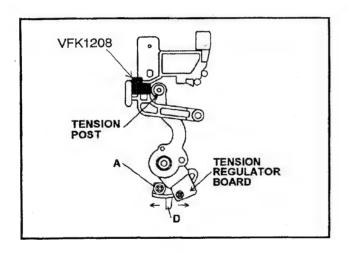
6. Neutral Position Adjustment

	The second secon
BOARD	Servo
SPEC.	2.5 ± 0.1V
TEST	TP402
ADJUST	Sensor
MODE	STOP
TOOL	VFK1208
M.EQ	Digital Volt Meter

- 1. Remove the cassette up unit.
- Set the tube* to cover the sensor LED and place the unit in on tape loading mode.
- Install the black spacer with hole (VFK1208)
 as shown in figure. Adjust the sensor position
 so that the TP402 voltage is within
 specification. To adjust, loosen the screw A
 and adjust the lever D.

Note.

1. Make a tube* by yourself.



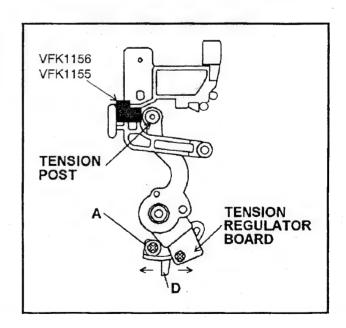
7. Play & Rev Tension Adjustment

BOARD	Servo
SPEC.	(PLAY) $3.8 \pm 0.05V$
	(REV) 1.2 ± 0.3V
TEST	TP402
ADJUST	VR401
MODE	STOP
TOOL	VFK1156, VFK1155
M.EQ	Digital Volt Meter

- 1. Set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- Install the black spacer (VFK1156) as shown in figure. Adjust the VR401 so that the TP402 voltage is within specification (PLAY). To adjust, loosen the screw A and adjust the lever D.
- 3. Install the gold spacer (VFK1155) instead of the black one. Confirm that the TP402 voltage is within specification (REV).

Note.

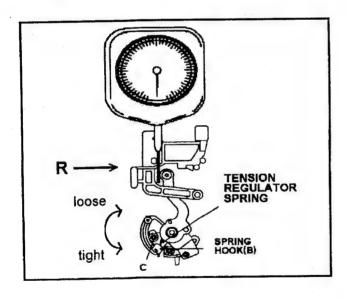
- 1. Make a tube* by yourself.
- In case that it is impossible to adjust within specification, readjust from Neutral Position Adjustment.



8. Tension Spring Adjustment

BOARD	Servo
SPEC.	11 ± 1g
TEST	TP402
ADJUST	Spring hook(B)
MODE	STOP
TOOL	VFK1188
M.EQ	Digital Volt Meter

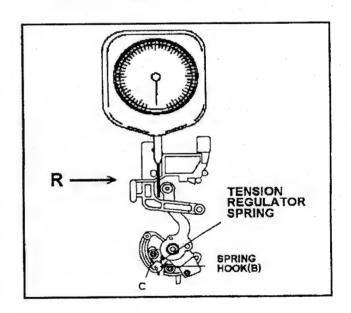
- 1. Remove the cassette up unit.
- 2. Set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- Insert the tension gauge to push the tension post to the direction R until the voltage at the TP402 is 3.8V(PLAY position).
- Adjust the position of hook(B) so that the indication of gauge is within specification. To adjust hook(B), loosen the screw(C).



9. REV Tension Confirmation

BOARD	Servo
SPEC.	18 ± 2g
TEST	TP402
MODE	STOP
TOOL	VFK1188
M.EQ	Digital Volt Meter

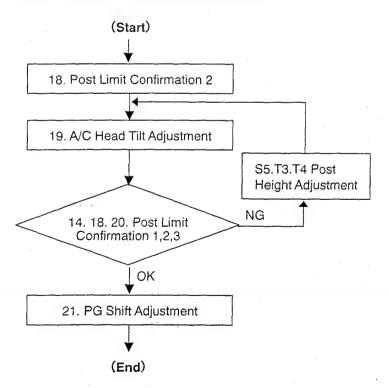
- 1. Set the tube* to cover the sensor LED and place the unit in no tape loading mode.
- 2. Insert the tension gauge to push the tension post to the direction R until the voltage at the TP402 is 1.2V(REV position).
- 3. Confirm that the indication of gauge is within specification. If not, make the Tension Spring Adjustment again.



Tape Path Adj. Flowchart 10. T3 Post Height Adjustment SPEC. No tape curl (Start) **ADJUST** T3 Post Height MODE PLAY TAPE Blank tape 10. T3 Post Height Adjustment TOOL VFK1151 Confirm that the tape has no curl at T3 post. 11. Linearity Preadjustment If not, adjust the T3 post height so that no tape curl occurs to the tape edge. 12.13. A/C Head Adjustment NG 14. Post Limit Confirmation OK 17. Tension Height Adjustment NG 15.16. Envelope Confirmation OK

Post Limit Confirmation Flowchart

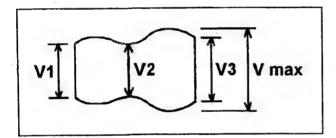
(End)



11. Linearity Preadjustment

V1/Vmax, V2/Vmax, V3/Vmax ≥ 0.8
TP500(VTR MAIN Board)
S1, T1 Post Height
PLAY(ATF)
NTSC: VFM3580KL
PAL: VFM3680KL
Oscilloscope
VFK1149

- 1. Playback the alignment tape.
- 2. Adjust the S1 and T1 posts so that the envelope output is within specification.



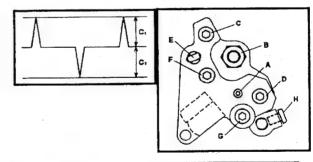
12. A/C Head Height Adjustment

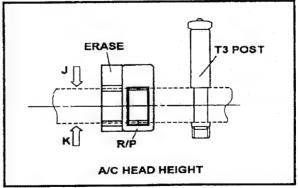
BOARD	Servo	
SPEC.	CTL Output : C1, C2 ≥ 220 (mV)	
TEST	TP107 : CTL Output	
ADJUST	Screw B, H(A/C Head)	
MODE	PLAY	
T. D.	NTSC: VFM3580KL	
TAPE	PAL: VFM3680KL	
M.EQ	Oscilloscope	
TOOL	TOOL VFK1150, VFK1190	

- 1. Monitor the TP107 on the Servo board.
- Press the tape to the direction J or K and confirm that the CTL output level is decreased.
- If direction J increases CTL output, loosen the screw H and adjust the screw B counterclockwise until CTL output is maximized.
- 4. If direction K increases CTL output, loosen the screw H and adjust the screw B clockwise until CTL output is maximized.
- 5. After tightening the screw H(2.0kg), confirm the level again.

Note.

1. Adjust alternately with other A/C head adjustments(Azimuth, Height).





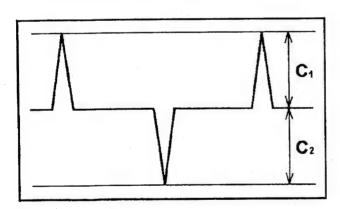
13. A/C Head Azimuth Adjustment

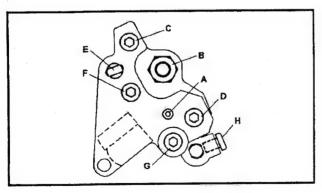
BOARD	Servo	
SPEC.	CTL Output : C1, C2=C1 max, C2 max	
TEST	TP107 : CTL Output	
ADJUST	Screw F(A/C Head)	
MODE PLAY		
TADE	NTSC: VFM3580KL	
TAPE	PAL: VFM3680KL	
TOOL	VFK1148	
M.EQ	M.EQ Oscilloscope	

 Monitor the TP107 on the Servo Board and adjust the screw F so that the TP107 is maximized.

Note.

1. Adjust alternately with other A/C head adjustments (Tilt, Height).





14. Post Limit Confirmation 1

SPEC. Post limits shown in the table. No tape curl	
MODE PLAY	
TAPE NTSC: VFM3580KL PAL: VFM3680KL	
TOOL	VFK1149 VFK1151

Post Limit Table

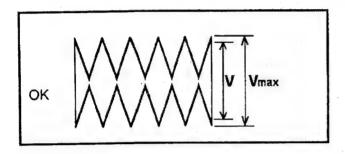
Post	Limit	Adjustment
S5 Post	Lower Limit or Free	S5 Post Height
S4 Post	Lower Limit	S4 Post Height
S1 Post	Upper Limit	Linearity
T1 Post	Upper Limit	Linearity
T3 Post	Lower Limit	T3 Post Height
T4 Post	Lower Limit or Free	T4 Post Height

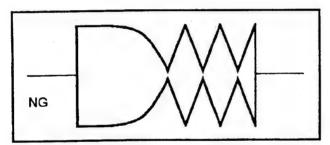
1. Confirm the post limit of each post and adjust in case of need.

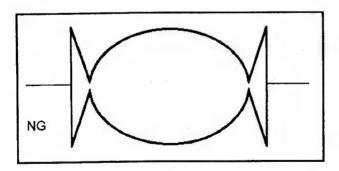
15. Envelope Confirmation 1

SPEC.	V/Vmax ≥ 0.9
TEST	TP500(VTR MAIN Board)
MODE	FF, REW, REV(PLAY & REW)
	NTSC: VFM3580KL
TAPE	PAL: VFM3680KL
M.EQ	Oscilloscope

- 1. Confirm the envelope in each mode.
- 2. If out of specification, adjust the S4 post height again.





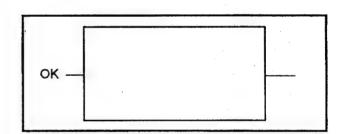


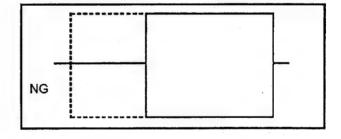
- * REVX1 Setting
- (1) Press the PLAY key repeatedly twice to enter the STILL mode.
- (2) Press the RESET and PLAY buttons at the same time.

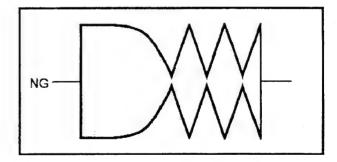
16. Envelope Confirmation 2

SPEC.	SPEC. Envelope appears immediately. TEST TP500(VTR MAIN Board)	
TEST		
	REW/REV(PLAY & REW) → PLAY	
MODE	FF→ PLAY	
	LOADING → PLAY	
TADE	NTSC: VFM3580KL	
TAPE	PAL: VFM3680KL	
M.EQ	M.EQ Oscilloscope	

- Confirm that the envelope appears immediately when the mode is switched from REW to PLAY, from REV to PLAY, from FF to PLAY and from LOADING to PLAY.
- 2. If out of specification, adjust the S4 post height again.







^{*} For the REV mode, refer to the item number 15.

17. Tension Height Adjustment

	The second secon	
SPEC.	SPEC. Envelope appears immediately.	
TEST	TP500(VTR MAIN Board)	
ADJUST	S1, T1, S4 Post	
	REW/REV(PLAY & REW) → PLAY	
MODE	FF → PLAY	
	LOADING → PLAY	
	NTSC: VFM3580KL	
TAPE	PAL: VFM3680KL	
M.EQ	M.EQ Oscilloscope	

- * This adjustment must be done only when out of specification in Linearity Preadjustment, Envelope Confirmation 1 or 2.
- Turn the S4 post 90 degrees counterclockwise and adjust S1 and T1 posts again.
- 2. Confirm that the envelope appears immediately when the mode is switched from REW to PLAY, from REV to PLAY, from FF to PLAY and from LOADING to PLAY.
- 3. If out of specification, repeat 1. again. Do not turn the S4 post more than 360 degrees.

18. Post Limit Confirmation 2

	Post limits shown in the table.	
SPEC.	No tape curl	
MODE	REV(PLAY & REW)	
TADE	NTSC: VFM3580KL	
TAPE	PAL: VFM3680KL	
M.EQ VFK1149		
	VFK1151	

Post Limit Table

Post	Limit	Adjustment
S5 Post	Free	S5 Post Height
S4 Post	Lower Limit or Free	S4 Post Height
S1 Post	Upper Limit	Linearity
T1 Post	Free	Linearity
T3 Post	Lower Limit	T3 Post Height
T4 Post	Lower Limit	T4 Post Height

1. Confirm the post limit of each post and adjust again in case of need.

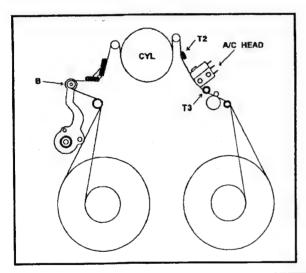
19. A/C Head Tilt Adjustment

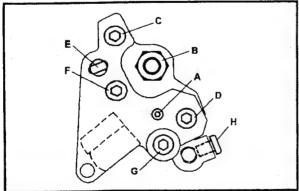
SPEC.	PEC. No tape curl, Lower limit at T3 post	
ADJUST	Screws A and G(A/C Head)	
MODE	PLAY	
TAPE Blank tape TOOL VFK1148, VFK1178		

- 1. Confirm that the screw (G) is tightened with 1.0kg of torque.
- 2. Play back the tape and adjust the A/C head tilt with screw (A) so that the tape path has lower limit at T3 post.

Note.

- 1. Screw(A): Clockwise: Tape goes up at T3 post. Counterclockwise: Tape goes down.
- 2. The final touch of the adjustment must be turned clockwise.
- 3. Adjust alternately with each A/C head adjustment(Azimuth, Height).





20. Post Limit Confirmation 3

SPEC.	Post limits shown in the table.	
SFLO.	No tape curl	
MODE	FF, REW	
·	L cassette(beginning or ending portion)	
TAPE	NTSC: VFM3580KL	
	PAL: VFM3680KL	
TOOL	VFK1149	
TOOL	VFK1151	

Post Limit Table

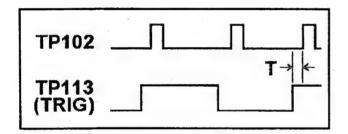
	Post	Limit	Adjustment
-	S5 Post	Free	S5 Post Height
	S4 Post	Lower Limit or Free	S4 Post Height
	S1 Post	Upper Limit	Linearity
ı	T1 Post	Free	Linearity
	T3 Post	Free	T3 Post Height
	T4 Post	Lower Limit or Free	T4 Post Height

- Confirm Post Limit Confirmation 1 and 2
 playing back beginning or ending portion of L
 cassette.
- 2. Confirm the post limit of each post and adjust again in case of need.
- 3. If T3 post is adjusted, confirm that the tape has no curl at T3 post when loading or unloading.

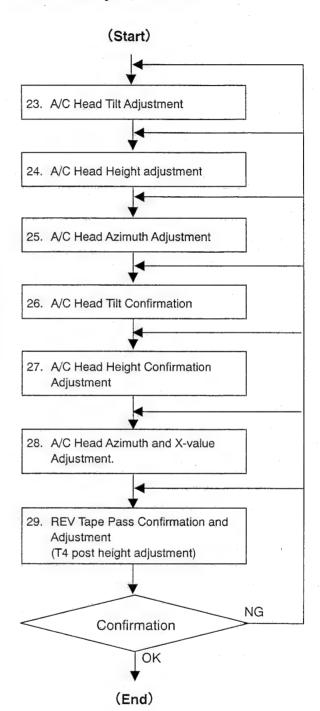
21. PG Shifter Adjustment

BOARD	Servo	
SPEC.	$126.3 \pm 2.5 \mu s$	
TEST	TP113, TP102	
ADJUST	VR101	
MODE	PLAY	
TADE	NTSC: VFM3580KL	
TAPE	PAL: VFM3680KL	
M.EQ	Oscilloscope	

 Adjust the VR101 so that the T is within specification (Trigger: TP113).



A/C Head Adj. Flowchart

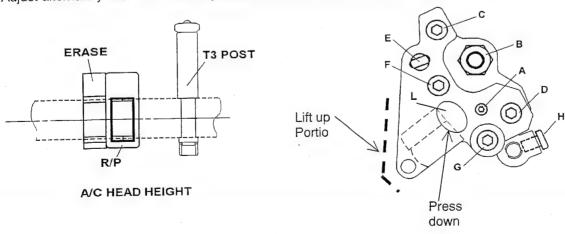


22. A/C Head Adjustment Method

C Head Adjus		VICTION 1	Torque
Adjustment Item	SCRE W	Adjustment Method	Torque
Tilt adjustment	Α	Tighten direction · · · Decrease CUE Loosen direction · · · Increase CUE	
Height adjustment	В	Tighten direction • • In case of increase CTL, when A/C Head Press down. Loosen direction • • In case of increase CTL, when A/C Head lift up.	
Azimuth adjustment	F	Phase is adjusted by screw F	
X-value adjustment	C D	Adjust X-value by VFK0357 at Hole (E), then tighten the screw (C) and (D) to fix A/C Head horizontal position.	2.5Kg.cm
Fixed Tilt and Azimuth	G	Screw (G) is always tighten during adjustment except Tilt and Azimuth.	1.0Kg.cm
Fixed height	Н	After height adjustment, tighten the screw (H) to fix height of A/C Head.	

SCREW	Tool for adjustment		
A	VFK1178 (0.89mm Hex Driver)		
В	VFK1150 (5.5mm Tool for adjustment)		
F	VFK1148 (1.5mm Hex Driver)		
C,D,G	VFK1209 (Torque Driver)		
, , , ,	VFK0912 (1.5mm Post Axis Driver)		
Н	VFK1190 (1.5mm L type of Hex Wrench)		

- 1. Each adjustment of A/C Head should be perform under the screw (G) tightened.
- 2. Confirm the screw (A) does not loosen, before execute the A/C Head Tilt adjustment. The screw (A) should be always touch to top of A/C Head.
- 3. Be careful the tape damage at T3 Post, when adjust tilt of A/C Head.
- 4. When the height of A/C Head is adjusted by Nut (B), first the screw (H) should be loosen. And after height adjustment finished, tighten the screw (H) lightly.
- 5. Each adjustment of A/C Head should be finished at the condition of turn the each adjustment screw tighten direction. And hit the portion (L) lightly for remove the distortion.
- 6. Adjust alternately each A/C Head adjustment with Envelope Waveform adjustment.

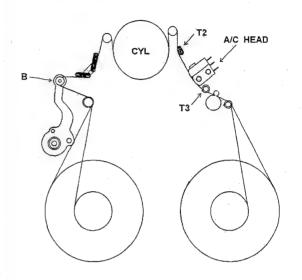


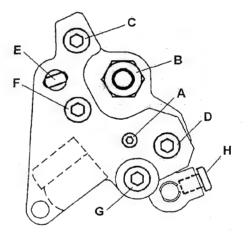
23. A/C Head Tilt Adjustment		
SPEC	Lower limit at T3 Post No tape curl	
ADJUSTMENT SCREW A and G (A/C Head)		
MODE	PLAY	
TAPE	Blank Tape	
M.EQ	1.EQ VFK1148、VFK1178(Hex Driver)	

- Play back the tape and adjust screw(A) for adjustment of tilt of A/C Head so that the tape path has lower limit without curl at T3 post.
- To adjustment, loosen the screw (G) and make curl on tape at lower flange of T3 post by screw (A). And tighten screw (A) accordingly for find the point of curl disappeared. After finish adjustment for screw (A), tighten the screw (G) is tightened with 1.0Kg/cm of torque.

(NOTE)

- In case of turn clockwise screw (A).
 → Tape goes up at T3 post.
 In case of turn counter-clockwise screw (A).
 → Tape goes down at T3 post.
- When screw adjustment finished, with each adjustment screw on A/C Head should be finished tighten direction. And confirm that the screw does not loosen.
- Adjust and confirmation should be performed alternately with each A/C head adjustment(Azimuth and Height).



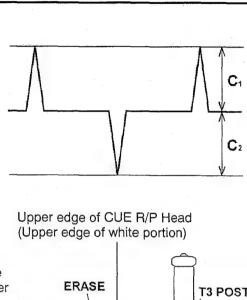


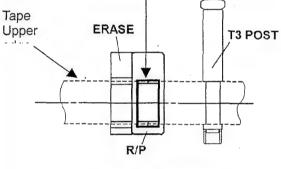
24. A/C Head Height adjustment			
BOARD	SERVO		
SPEC	CTL Output (C1,C2≧220mV)		
TEST POINT	TP107:CTL		
ADJUSTMENT	SCREW B and H (A/C Head)		
MODĖ	PLAY		
TAPE	VFM3580KM, VFM3680KM		
M.EQ	Oscilloscope		
TOOL VFK1150(Nut Driver) VFK1190(Hex Wrench)			

- Observe the CTL output (TP107) on the Servo board.
- Press and Lift up to A/C Head lightly as indicated as figure position, then confirm that the CTL output level is decreased.
- If increases CTL output, when press the A/C Head. Loosen the screw H and adjust the screw B counterclockwise until CTL output is maximized.
- If increases CTL output, when lift up the A/C Head. Loosen the screw H and adjust the screw B clockwise until CTL output is maximized.
- 5. After tightening the **screw H(2.0kg)**, confirm the level again.

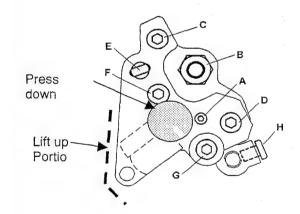
< NOTE >

Adjust alternately with other A/C head adjustments(Azimuth, Height).

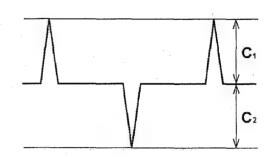








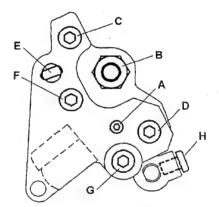
25. A/C Head Azimuth Adjustment		
BOARD	SERVO	
SPEC	CTL Output:C1,C2 = C1 max. C2 max	
TEST POINT	TP107:CTL	
ADJUSTMENT	SCREW F (A/C Head)	
MODE	PLAY	
TAPE	VFM3580KM, VFM3680KM	
M.EQ	Oscilloscope	
TOOL	VFK1148(Hex Driver)	



- 1. Observe the CTL output (TP107) on the Servo Board.
- To adjustment, loosen the screw (G) and adjust screw (F) so that the CTL output become maximum.
- 3. Tighten screw (G) with 1.0Kg torque.

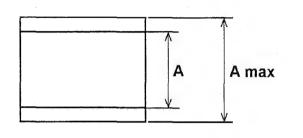


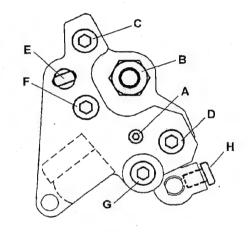
. Adjust alternately with other A/C head adjustments(Azimuth, Height).

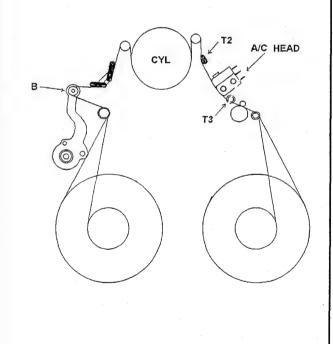


26. A/C Head Tilt Confirmation		
SPEC	A/Amax ≧ 0.8	
TEST POINT	TP505:CUE AUDIO(LCD Board)	
ADJUSTMENT	SCREW A and G (A/C Head)	
MODE	PLAY	
TAPE	VFM3580KM, VFM3680KM	
M.EQ	Oscilloscope	
TOOL	VFK1178, VFK1148(Hex Driver)	

- Playback the CUE portion(6kHz) of the Alignment tape.
- 2. Confirm that the **screw G** and **H** are not loosened.
- Push the tension arm follow the arrow (B) direction as shown in figure as range of T2 post does not move. And confirm that the CUE output level is within specification.
- If out of specification, loosen the screw G
 and adjust the screw A, then tighten the
 screw G with 1.0kg torque.
- 5. The final touch of the adjustment must be turned clockwise. After this adjustment, confirm that the screw A is not loosened.
- If adjust the screw A, Confirm that the tape pass condition follow Post Limit Confirmation procedure (item 1-14).

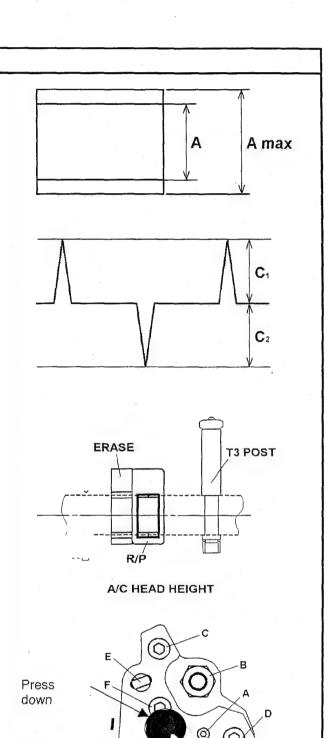






27. A/C Head Height Confirmation			
SPEC	A≥0.95×Amax、C1、C2 ≥ 220mV		
TEST POINT	TP505 CUE AUDIO(LCD BOARD) TP107 CTL(SERVO BOARD)		
ADJUSTMENT	SCREW B and H(A/C Head)		
MODE	PLAY		
TAPE	VFM3580KM, VFM3680KM		
M.EQ	Oscilloscope		
TOOL	VFK1150(Nut Driver)		
	VFK1190(Hex Wrench)		

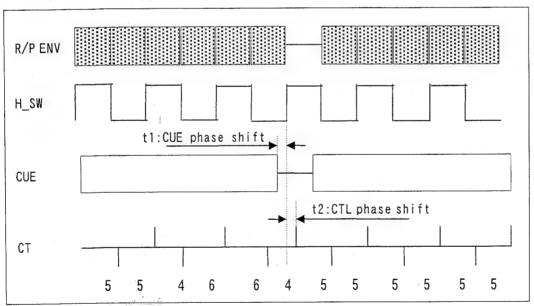
- Playback the CUE portion(6kHz) of the Alignment tape.
- Press and Lift up to A/C Head lightly as indicated as figure position, then confirm that the CUE output level at TP505 does not increased.
- If increases CUE output, A/C Head Height adjustment performed. And also confirm that the CTL output level.
- 4. If adjust the height of A/C Head, Azimuth also changed. Therefore adjust and confirm alternately Height and Azimuth of A/C Head.
- After screw (H) is tightened, height and tilt of A/C Head are changed. Therefore confirmation of specification must be done after tightening the screw (H).

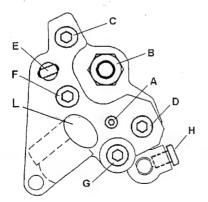


Lift up Portion 28. A/C Head Azimuth and X-value Adjustment.

SPEC.	AS shown in the below figure250us≦t1≦+250us -250us≦t2≦+250us	TEST POINT	TP500:R/P ENV(RF Board) TP300:R/P HSW (RF Board) TP505:CUE AUDIO (LCD Board) TP107:CTL (SERVO Board)
ADJUSTMENT	A/C Head each screws	M.EQ	Oscilloscope
MODE	Play	TOOL	VFK0357(Eccentric Driver)
TAPE	VFM3582KM, VFM3682KM		

- 1. Playback the X-value alignment tape.
- 2. Adjust A/C Head Azimuth (refer to Azimuth adjustment procedure) so that the CTL and Lack part of CUE(t2) is match in the phase.
- 3. Confirm the lack track of envelope, and select the HSW correspond with it (The lack track is correspond HSW high with Lch).
- 4. Adjust X-value so that the reference of HSW and CTL trigger (select the next trigger at duty 6 to 4 portion: refer to below figure) are match in the phase(t1). To adjust X-value, loosen the screw C and D, adjust the hole E by VFK0357. After adjustment tighten the screw C and D with 2.5Kg torque. At this time adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept.
- 5. Hit the top plate (portion L as shown in below figure) of A/C Head lightly by a pointed end of Eccentric driver , then confirm the phase is not shifted finally.





29. REV Tape Pass Confirmation and Adjustment (T4 post height adjustment)

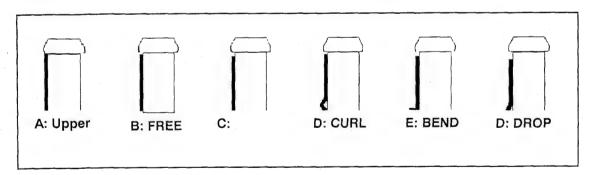
ZJ. ILL V IMP	The state of the s		
SPEC.	SPEC. C1. C2≧Cp1. Cp2×0.75 TAF		VFM3580KM, VFM3680KM
	Lower limit at T3 post on REV		
	mode		
TEST POINT	TP30(SERVO:F1)	M.EQ	Oscilloscope
ADJUSTMENT	T4 post height	TOOL	VFK1151 (Nut Driver)
MODE	REV×1		

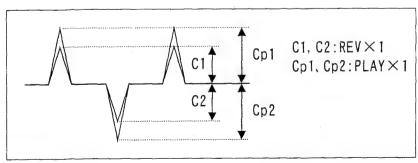
- 1. Place unit into REV mode, and confirm the post limit and CTL signal are in the specification. IF not, adjust T4 post follow the below procedure.
- 2. Turn the Nut of T4 post clockwise or counterclockwise follow the tape limit condition at T3 post. The maximum rotation angle is 90 degree.
- 3. Place unit into REV X1 mode and confirm the CTL output level is become more than 75% on play mode. Confirm the tape pass limit become lower limit at T3 post and the tape does not have curl at T3 and T4 post.
- 4. However out of specification, adjust T4 post height follow the Post Height Pre-adjustment procedure.

T4 Nut adjustment direction

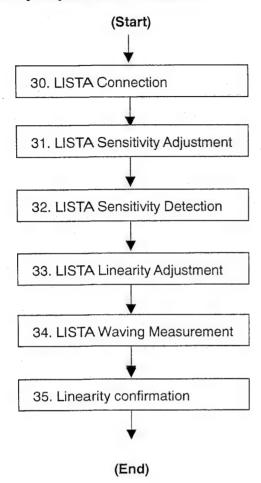
1 Truck dajactiment and control			
Direction of adjustment nut of T4	CTL level on REV	Lower limit at T3 post	
post	mode	On REV mode	
Tighten direction	Increase	Tape touch to strong	
Loosen direction	Decrease	Tape touch to weak	

Post Limit Tape limit Post В С Е F Α D Name 0 X \times \times \times × T3 Post 0 \bigcirc × X X T4 Post





Linearity Adjustment Flowchart



30. LISTA Connection and Boot Up

TEST POINT	TP115 : ATF ERR (SERVO Board)
	TP113 : R/H HSW (SERVO Board)
	TG300 : GND (SERVO Board)
M.EQ	P/C (AD Board should be installed), Oscilloscope
TAPE	NTSC: VFM3581KL, PAL: VFM3681KL
TOOL	VFK1481 (LISTA Software), VFK1186 (LISTA Cable)

- 1. Connect the LISTA Cable to A/D board on PC.
- 2. Connect the Clips of LISTA Cable to test point on Servo Board as follow as below.

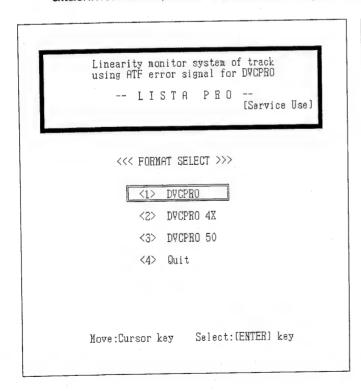
1 ATF: TP1152 HSW: TP1133 GND: TG300

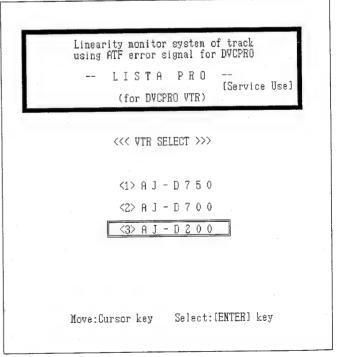
Boot up the LISTA software on DOS mode.

★ Install and Boot up.

All files on the floopy disk (VFK1481) copy to created directly on PC (i.e. C:\footnote{LISTA}). Type "LISTA" and press ENTER Key, then boot up LISTA software.

- 4. Select the item "DVC PRO" then "AJ-D200" for selected model on the menu.
- 5. After selected model, appeared alignment tape data on the screen for select the Serial number on the alignment tape. But if LISTA software have not resisted data of alignment tape, press the ESC key, then main menu is display on the screen. And select item "<4> Alignment Tape" for entry the data on the attachment sheet, which is enclosed of alignment tape.





How to Entry the Attachment Data of Alignment Tape

- 1. Select the item "<4> Alignment Tape" on the main menu to the LISTA software.
- Select the item "<2> ENTRY" on the alignment tape menu. 2.
- 3. After display the screen of "<< Alignment Tape Data Entry >>", first input the Serial number follow the printed number on the tape label. And input the number "0" or "1" for select the PAL/NTSC. And after that for entry the tape type, in case of DVCPRO input to "0", in case of DV input to "1".
- After select the Tape Type, the frame for input the DATA and CHECK SUM appeared on the screen, input the numerical value in numerical order on the data sheet, which are enclosed with alignment tape. If input the wrong number, appear the error message on the screen, then confirm that the data on the
- After entry the data, select "<1> SELECT" on the Alignment Tape menu and select the serial number of 5. the alignment tape.

<< Alignment	Tape	Data	Entry	>>
--------------	------	------	-------	----

- 0.1
0.1
0.0
0.2
0.6
0.5_
0.7
0.9
1.0
0.8

•		
	[11]	0.7
	[12]	1.0
	[13]	0.7
	[14]	0.5
	[15]	0.2
	[16]	- 0.5
	[17]	- 0.3
	[18]	- 0.3
	[19]	- 0.1
	[20]	- 0.6

1]	0.7	[21]	- 0.
2]	1.0	[22]	- 0.
3]	0.7	[23]	- 0.
4]	0.5	[24]	- 0.
5]	0.2	[25]	- 0.
3]	- 0.5	[26]	- 0.
7]	- 0.3	[27]	- 0.
3]	- 0.3	[28]	- 0.
9]	- 0.1	[29]	- 0.
0]	- 0.6	[30]	- 0.

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

Serial No. 0596003 (NTSC)

[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1
1001	0.0

18um

31. LISTA Sensitivity Adjustment

SPEC.	Sensitivity : 100 ± 10 (mV/μm)
MODE	PLAY
	TP115: ATF ERR (SERVO Board)
TEST POINT	TP113: HSW (SERVO Board)
	TG300 : GND (SERVO Board)
ADJUSTMENT	EVR (ATF Gain): refer to below sentence about how to adjustment
TAPE	NTSC: VFM3581KL, PAL: VFM3681KL

- 1. Set up the EVR tool according to Connection figure at the beginning of Electrical Adjustments.
- 2. Confirm that the power is turned off and make a short-circuit between **TP902** and **TP116** to place the unit in +1.2% Playback mode.
- 3. After turn on Power and Playback an alignment tape.
- 4. Select the "<6> ATF Error Signal Monitor" on the main menu. And than press "SPACE" key for executes initializes.
- 5. Press the "0 (zero)" key for download the ATF GAIN DATA from the unit.
- 6. Press the "ENTER" key, sensitivity value as real time and waveform appears ont the screen as shown in figure.
- 7. Press the key in PC so that the sesitivity value which is described as **Sens**, **Value** is within specification. Note: Data is changed 10 steps by press [→] or [←] keys.

Data is changed 1 steps by press $[\psi]$ or $[\uparrow]$ keys.

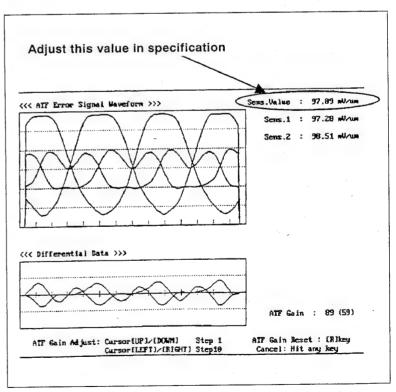
After press arrow key, screen displays disappeared momentary during calculation on LISTA software.

8. After the adjustment, press ESC key to exit to the menu.

A J - D 2 0 0
Please change VTR Tape Speed Mode
 (Normal Speed => +1.2% Speed)

RS-232C Conection Check ===> [SPACE] key
ATF GAIN Value Reset ===> [R] key

Ready ==> Hit any key
Cancel: (ESC) key



32. LISTA Sensitivity Detection

BOARD	Servo
SPEC.	Sensitivity : 100 ± 10(mV/μm)
	TP115 : ATF Error (Servo Board)
TEST	TP113: HSW_R(Servo Board)
	TG300 : GND(Servo Board)
MODE	+1.2% Playback
TAPE	NTSC: VFM3582KL (LISTA)
	PAL : VFM3682KL (LISTA)
M.EQ	LISTA

- Confirm that the power is turned off and make a short-circuit between TP902 and TP116 to place the unit in +1.2% Playback mode.
- 2. Playback an alignment tape.
- 3. Select <1> Sensitivity Measurement menu and start the sensitivity detection.
- 4. Confirm that the sensitivity value is within specification.
- 5. If out of specification, repeat the steps 3 and 4.
- 6. If still out of specification, make "LISTA Sensitivity Adjustment again.

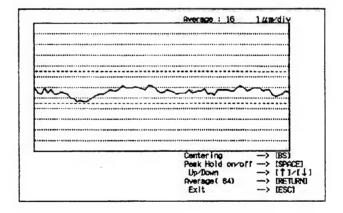
33. LISTA Linearity Adjustment

BOARD	Servo
SPEC.	Linearity: Less than 3µm
	TP115 : ATF Error(Servo Board)
TEST	TP113 : HSW_R(Servo Board)
	TG300 : GND(Servo Board)
ADJUST	S1, T1 Post Height
MODE	LISTA mode
TAPE	NTSC: VFM3582KL (LISTA)
	PAL : VFM3682KL (LISTA)
TOOL	VFK 1149
M.EQ	LISTA

- Confirm that the power is turned off and make a short-circuit between TP902, TP116 and TP101 to place the unit in LISTA mode.
- 2. Playback an alignment tape.
- 3. Select <2>Linearity Measurement menu, and display the linearity.
- 4. Adjust the S1 post height and T1 post height so that the linearity is within specification.

Note.

- 1. Lower part of the monitor shows the lead.
- 2. Current linearity is red line.



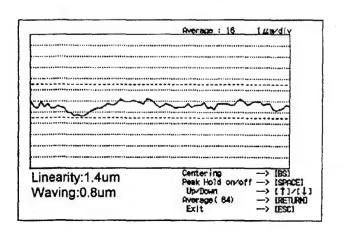
34. LISTA Waving Measurement

BOARD	Servo	
SPEC.	Waving : Less than 1.5μm	
	TP115 : ATF Error(Servo Board)	
TEST	TP113 : HSW_R(Servo Board)	
·	TG300 : GND(Servo Board)	
ADJUST	S1, T1 Post Height	
MODE	LISTA mode	
TARE	NTSC: VFM3582KL(LISTA)	
TAPE	PAL : VFM3682KL(LISTA)	
TOOL	VFK1149	
M.EQ	LISTA	

- Confirm that the power is turned off and make a short-circuit between TP902, TP116 and TP101 to place the unit in LISTA mode.
- 2. Playback an alignment tape.
- Select <2>Linearity Measurement menu, and display the linearity.
- After linearity is displayed, press the SPACE key to hold the peak (Peak-Hold) during 30 seconds.
- After Peak-Hold, press the SHIFT key and key together to display the measurement value and confirm that the value is within specification.
- 6. After the adjustment, press ESC key to exit to the menu.

Note.

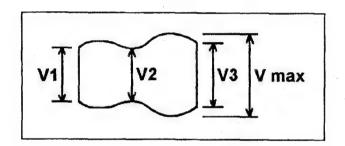
- 1. Confirm that waving value is almost the same from the entrance to the exit.
- 2. If out of specification because of wrong post limits, adjust the S1 and T1 posts again.



35. Linearity Confirmation

SPEC.	V1/Vmax, V2/Vmax, V3/Vmax ≥ 0.8
TEST	TP500(VTR MAIN Board)
MODE	PLAY(ATF)
TAPE	Blank Tape
TOOL	VFK1149
M.EQ	Oscilloscope

- 1. Record the color bar signal.
- 2. Play back the recorded portion and confirm that the envelope output is within specification.



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1. POWER

1-1. DC Voltage Adjustment

ITEM	TEST	ADJUST	SPEC.
3.15V ADJ.	*TP9	VR5	3.15 ± 0.01V
3.6V ADJ.	TP4	VR3	$3.6 \pm 0.05 \text{V}$
5.0V ADJ.	TP5	VR2	5.0 ± 0.05 V
5.6V ADJ.	TP3	VR1	5.6 ± 0.05V
-5.6V ADJ.	TP8	VR6	-5.6 ± 0.51V
9.0V ADJ.	TP6	VR4	9.0 ± 0.05V
48V Confirm	TP9		44.0 ± 4.0V

Note:

*The test point of 3.15V adjustment is on the VTR MAIN C.B.A., other TP and VR are on the POWER C.B.A. (GND : TP2)

<<PC-EVR Operation>>

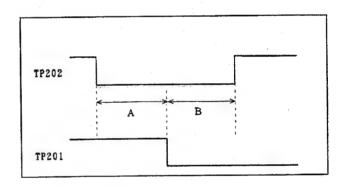
- Select Start Adjustment D223N and press Enter.
- 2. Select "PAL or NTSC" and press Enter.
- 3. Press F1(File) key.
- 4. Select "HD Read" on *Auto File and press Enter.
- 5. Select adjustment item of Sub Title on <Select File Read>.
- Press "F5 (Mode)" key and set "1 Step or All Steps" mode.
- 7. Select adjustment item by ↑ or ↓ key and press.Enter.
- 8. Adjust value by ↑ or ↓ key at <interactive Adjustment> window.
- 9. Press Enter to Exit from above window.

2. 1394 & PRE-SHUFFLE (PAL only)

2-1. PLL POS. Adjustment

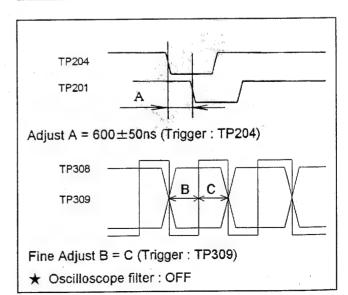
BOARD	1394 & PRE SHUFFLE	
TEST	TP201, TP202	
ADJUST	PC-EVR PLL_POS1_PAL	
MODE	EE	
INPUT	Color Bar	
M.EQ	Oscilloscope	
SPEC.	B=A ± 10%	

Select PC-EVR "VIDEO ADJUSTMENT 1" ⇒ "1.
PLL_POS_ADJUSTMENT".



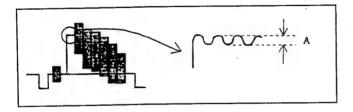
2-2. INH POS. Adjustment

BOARD	1394 & PRE SHUFFLE
TEST	TP201, TP204, TP308, TP309
ADJUST	VR201
MODE	EE
INPUT	Color Bar
M.EQ	Oscilloscope
SPEC.	A=600 ± 50ns, B=C



2-3. Carrier Balance Adjustment

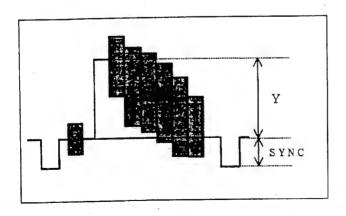
BOARD	1394 & PRE SHUFFLE
TEST	VIDEO OUT
ADJUST	VR609 (PR), VR610 (PB)
MODE	EE
INPUT	Color Bar
M.EQ	WFM
SPEC.	A=MINIMUM



2-4. Video & SYNC Level Adjustment

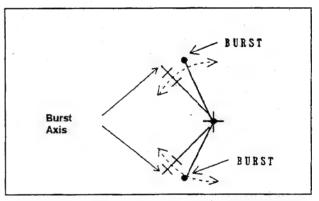
BOARD 1394 & PRE SHUFFLE	
TEST	VIDEO OUT
ADJUST	PC-EVR : Y_LEVEL
	VR602 (SYNC)
MODE	EE
INPUT	Color Bar
M.EQ	Oscilloscope or WFM
0050	Y=700 ± 35mVp-p
SPEC.	SYNC=300 ± 15mVp-p

Select PC-EVR "VIDEO ADJUSTMENT 1" \Rightarrow "2. Y_LEVEL_ADJUSTMENT", And SYNC Level adjust by VR602.



2-5. Burst 0 Phase Adjustment

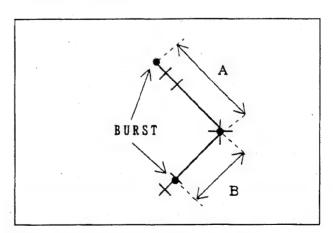
BOARD	1394 & PRE SHUFFLE
TEST	VIDEO OUT
ADJUST	VR608 (BURST 0)
MODE	EE
INPUT	Color Bar
M.EQ	Vector Scope
SPEC.	Vector Scale(see below)



Adjust the both Burst phase align to the Burst Axis of the Vector Scope.

2-6. QUAD Adjustment

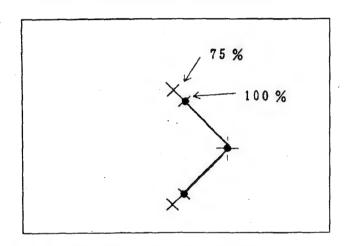
BOARD	1394 & PRE SHUFFLE
TEST	VIDEO OUT
ADJUST	VC601 (QUAD)
MODE	EE
INPUT	Color Bar
M.EQ	Vector Scope
SPEC.	A=B



Adjust the Burst level A and B are same level.

2-7. Burst Level Adjustment

BOARD	1394 & PRE SHUFFLE
TEST	VIDEO OUT
ADJUST	VR607
MODE	EE
INPUT	Color Bar
M.EQ	Vector Scope
SPEC.	Burst Level = 100% Scale



2-8. Chroma Level Adjustment

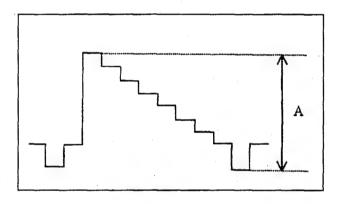
BOARD	1394 & PRE SHUFFLE
TEST	VIDEO OUT
ADJUST	VR604 (PB)
	PC-EVR : C_LEVEL (PR)
MODE	EE
INPUT	Color Bar .
M.EQ	Vector Scope
SPEC.	See below

Select PC-EVR "VIDEO ADJUSTMENT 1" \Rightarrow " 3. CHROMA_ADJUSTMENT(PR_LEVEL)".

Adjust PR level by PC-EVR first and PB level by VR so that Red dot Becomes into center of square mark on the Vector Scope. And confirm other color dot on the each square marks.

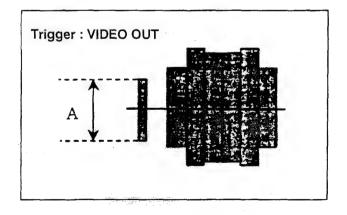
2-9. Y Out Level Adjustment

BOARD	1394 & PRE SHUFFLE
TEST	YOUT
ADJUST	VR802 (Y LEVEL)
MODE	EE
INPUT	Color Bar
M.EQ	WFM or Oscilloscope
SPEC.	A=1.00 ± 0.05Vp-p



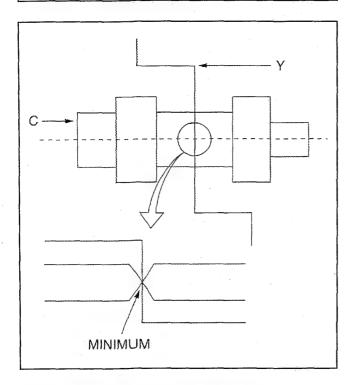
2-10. C Out Level Adjustment

BOARD	1394 & PRE SHUFFLE
TEST	COUT
ADJUST	VR803 (C LEVEL)
MODE	EE
INPUT	Color Bar
M.EQ	WFM or Oscilloscope
SPEC.	A=300 ± 15mVp-p



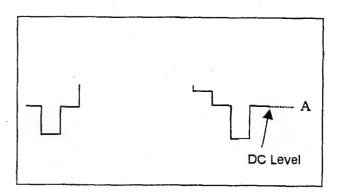
2-11. Y/C Timing Adjustment

BOARD	1394 & PRE SHUFFLE
TEST	TP802(Y), TP803(C)
ADJUST	VR603(PB), VR605(PR)
MODE	EE
INPUT	Color Bar
M.EQ	WFM or Oscilloscope
SPEC.	A=MINIMUM



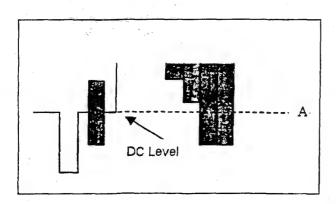
2-13. Y Out DC Adjustment

BOARD	1394 & PRE SHUFFLE
TEST	TP802(Y)
ADJUST	VR801 (Y DC)
MODE	EE
INPUT	Color Bar
M.EQ	Oscilloscope
SPEC.	A= 0 ± 0.05V



2-12. Video Out DC Adjustment

BOARD	1394 & PRE SHUFFLE
TEST	TP804(VIDEO)
ADJUST	VR804(VIDEO DC)
MODE	EE.
INPUT	Color Bar
M.EQ	Oscilloscope
SPEC.	A= 0 ± 0.05V



3. VIDEO/RF

3-1. AUDIO VCO Adjustment

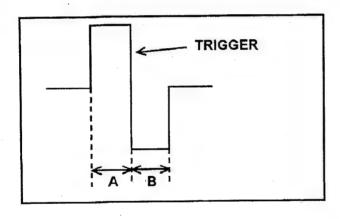
BOARD	MAIN
TEST	TP8
ADJUST	PC-EVR : AUDIO_VCO
MODE	EE
TAPE	
M.EQ	Oscilloscope
SPEC.	A=B ± 5%

<NTSC>

Select PC-EVR "VIDEO ADJUSTMENT 1" \Rightarrow "1. AUDIO VCO".

<PAL>

Select PC-EVR "VIDEO ADJUSTMENT 2" ⇒ "1. AUDIO_VCO".



3-2. ZEBRA Adjustment

BOARD	MAIN :
TEST	TP12
ADJUST	PC-EVR
MODE	PLAY & EE
TAPE	NTSC : VFM3580KL (Color Bar)
	PAL: VFM3680KL (Color Bar)
M.EQ	Oscilloscope
SPEC.	4.25 ± 0.15 CRT scale

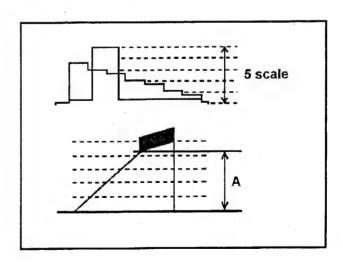
<NTSC>

Select PC-EVR "VIDEO ADJUSTMENT 1" ⇒ "5. ZEBRA_ADJUSTMENT".

<PAL>

Select PC-EVR "VIDEO ADJUSTMENT 2" \Rightarrow "2. ZEBRA ADJUSTMENT".

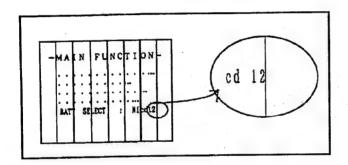
- Playback the alignment tape and set TP12(Y level) to 5 scales of the oscilloscope by CAL.
- Select "OUTPUT=RAMP" command and press Enter, the unit will change Ramp signal mode.
- 3. Adjust PC-EVR (ZEBRA=) so that A level becomes 4.25 scale level of the oscilloscope.
- After completed this adjustment, make sure select "OUTPUT=CAM" to back camera signal mode.



3-3. Character Position Adjustment

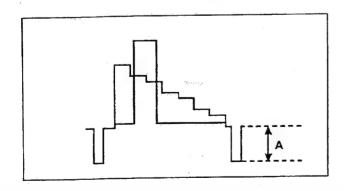
BOARD	MAIN
TEST	VIEW FINDER CRT
ADJUST	VC1
MODE	EE
TAPE	
M.EQ	
SPEC.	See below

- 1. Set the CAM/BAR switch to BAR side.
- Adjust VC1 (VC6001) so that right edge of character comes as below position.



3-4. SYNC Level Adjustment (NTSC only)

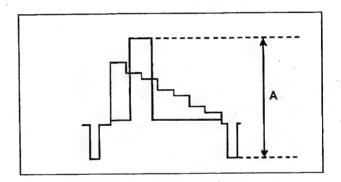
BOARD	MAIN
TEST	S-VIDEO (Y OUT)
ADJUST	VR6
MODE	PLAY
TAPE	VFM3580KL (Color Bar)
M.EQ	Oscilloscope
SPEC.	A=0.286 ± 0.004Vp-p
	(75 ohm terminated)



3-5. Y Level Adjustment (NTSC only)

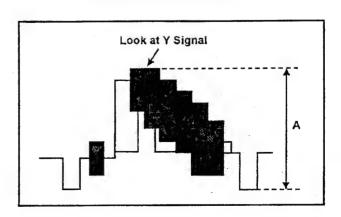
BOARD	MAIN
TEST	S-VIDEO (Y OUT)
ADJUST	PC-EVR
MODE	PLAY
TAPE	VFM3580KL (Color Bar)
M.EQ	Oscilloscope
SPEC.	A=1.0 ± 0.02Vp-p
	(75 ohm terminated)

Select PC-EVR "VIDEO ADJUSTMENT 1" \Rightarrow "2. Y_OUT_LEVEL_ADJUSTMENT".



3-6. VIDEO Level Adjustment (NTSC only)

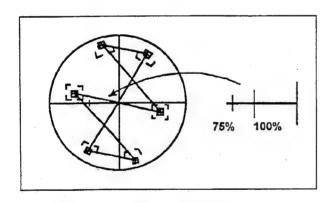
BOARD	MAIN
TEST	VIDEO OUT
ADJUST	VR10
MODE	PLAY
TAPE	VFM3580KL (Color Bar)
M.EQ	Oscilloscope
SPEC.	$A=1.0 \pm 0.02 Vp-p$
	(75 ohm terminated)



3-7. BURST Level Adjustment (NTSC only)

BOARD	MAIN
TEST	VIDEO OUT
ADJUST	PC-EVR
MODE	PLAY
TAPE	VFM3580KL (Color Bar)
M.EQ	Vector Scope
SPEC.	75% scale position

Select PC-EVR "VIDEO ADJUSTMENT 1" ⇒" 3.
BURST_LEVEL_ADJUSTMENT".

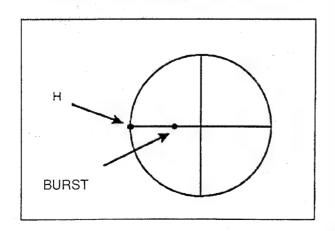


3-8. SCH Adjustment (NTSC only)

BOARD	MAIN
TEST	VIDEO OUT
ADJUST	PC-EVR
MODE	PLAY
TAPE	VFM3580KL (Color Bar)
M.EQ	Oscilloscope
SPEC.	SCH=0 ± 45°

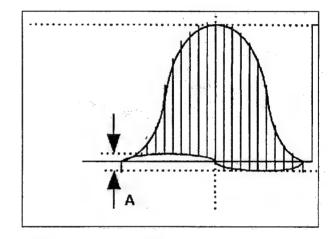
Select PC-EVR "VIDEO ADJUSTMENT 1" ⇒ "4. SCH_PHASE_ADJUSTMENT".

1. Adjust SCH so that as close to 0 degrees.



3-9. Y/C Timing Adjustment (NTSC only)

BOARD	MAIN
TEST	VIDEO OUT
ADJUST	VR5
MODE	PLAY
TAPE	VFM3580KL (Pulse & Bar)
M.EQ	WFM
SPEC.	A=minimize



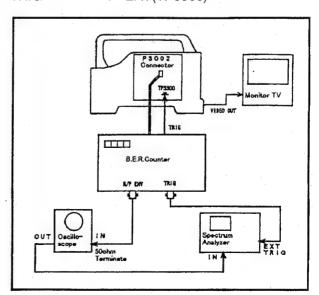
<RF Adjustment Preparation>

Spectrum Analyzer setting

START FREQ. : 0Hz STOP FREQ. : 25Hz RES BW : 300KHz VIDEO BW : 1KHz SWEEP TIME : 75ms dB/div : 2dB

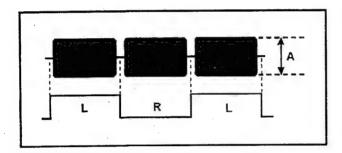
REF LEVEL : -42dB(Oscilloscope : 20mv)

TRIG : EXT(TP3300)



3-10. R/P Envelope Confirmation

BOARD	VTR MAIN
TEST	R/P Envelope, TP3300
ADJUST	
MODE	PLAY
TAPE	NTSC: VFM3580KL (Color Bar)
	PAL: VFM3680KL (Color Bar)
M.EQ	Oscilloscope
SPEC.	A ≧ 70mVp-p



3-11. PB Equalizer Adjustment

BOARD	VTR MAIN
TEST	B.E.R. Counter
ADJUST	PC-EVR : as following commands
MODE	PLAY
TAPE	NTSC: VFM3580KL
	PAL: VFM3680KL
M.EQ	B.E.R. Counter
SPEC.	Error rate = MINIMUM

Select PC-EVR "VIDEO ADJUSTMENT 2" \Rightarrow "3. PLAYBACK_E.Q._ADJUSTMENT".

- Select "Setting" line and press Enter, automatically set INNERECC and OUTERECC to OFF mode.
- Playback alignment tape and adjust PC-EVR (PLL_SL= → PLL_POS= → AUTO_EQ= → EQ_a_L= → EQ_b_L=then repeat PLL_SL=) so that L-ch error rate becomes minimum.
- Set CH SW of B.,E.R. Counter to R side and adjust PC-EVR(EQ_a_R= → EQ_b_R=) so that R-ch error rate becomes minimum.

3-12. REC Current Adjustment

BOARD	VTR MAIN
TEST	TP3202 (L-ch), TP3203(R-ch)
ADJUST	PC-EVR : REC_cur_L, REC_cur_R
MODE	REC/PB
TAPE	Recording Tape
M.EQ	Spectrum Analyzer
SPEC.	See Below

Select PC-EVR "VIDEO ADJUSTMENT 2" \Rightarrow "10. REC CUR ADJUSTMENT".

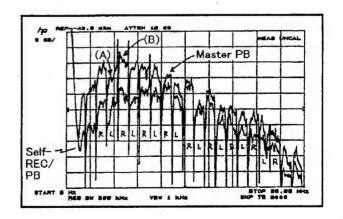
B.E.R. Counter setting Error Count : OFF

HSW SW:R

<< Preparation >>

- Playback the color bar portion of alignment tape and store average of 50 sampling in TRACE B on the Spectrum Analyzer.
- 2. Insert blank tape and record internal color bar signal.
- Set REC current level for both channel to 3Vp-p by PC-EVR (L-ch : REC_CUR_L=, Rch : REC_CUR_R).
- Play back just recorded portion and confirm

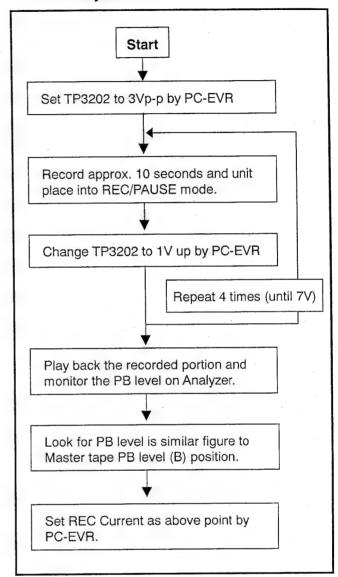
 (A) and (B) point should be lower than master play back level.

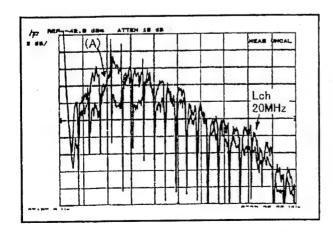


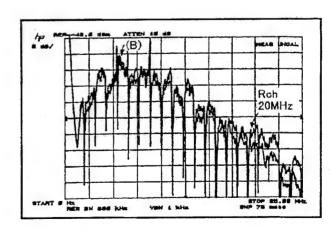
<< L-ch Adjustment >>

Start Set TP3202 to 3Vp-p by PC-EVR Record approx. 10 seconds and unit place into REC/PAUSE mode. Change TP3202 to 1V up by PC-EVR Repeat 4 times (until 7V) Play back the recorded portion and monitor the PB level on Analyzer. Look for PB level is similar figure to Master tape PB level (A) position. Set REC Current as above point by PC-EVR.

<< R-ch Adjustment >>







After completed RF adjustment should be set ECC mode to OFF.

Select PC-EVR "VIDEO ADJUSTMENT 2" ⇒ "12. SETTING", it is set INNERECC and OUTECC to OFF

4. AUDIO

4-1. PB LEVEL Adjustment

BOARD	VTR MAIN
TEST	AUDIO OUT
ADJUST	VR4101 (CH1), VR4201 (CH2)
MODE	PLAY
TAPE	NTSC: VFM3580KL
	PAL: VFM3680KL
M.EQ	V.T.V.M
SPEC.	-6dBu ± 0.2dBu

 Adjust VR4101 for CH1 and VR4201 for CH2 so that play back level becomes within specification.

4-2. CUE REC LEVEL Adjustment

BOARD	VTR MAIN
TEST	TP4001
ADJUST	VR4003
MODE	STOP
TAPE	
M.EQ	V.T.V.M
SPEC.	-10dBu ± 0.2dBu

<< Preparation>>

- Select MIC SELECT SW on the side panel to "REAR" position for both channel.
- Set REAR MIC LEVEL in menu screen to "-40dB" position.
- Set CUE REC SELECT in menu screen to "CH1" position.
- Adjust audio signal generator level becomes
 -6dBu at audio output.
- Connect PC-EVR and set Dolby OFF mode as following steps.
 - 1. Use F6 Direct Command function
 - 2. Type "DOLBY=OFF" then press Enter.
- 1. Adjust VR4003 so that audio out put level becomes within specification.

After completed this adjustment should be perform next item "4-3. CUE REC CURRENT ADJ.". Then make sure Dolby set to ON mode by PC-EVR.

4-3. CUE REC Current Adjustment

The second secon	<u> 1985 - Marian Cartana, i a la carta de la carta del la carta de </u>
BOARD	REAR JACK
TEST	TP1001
ADJUST	VR1002
MODE	PLAY
TAPE	NTSC: VFM3580KL
	PAL: VFM3680KL
M.EQ	V.T.V.M
SPEC.	0 ± 3dBu

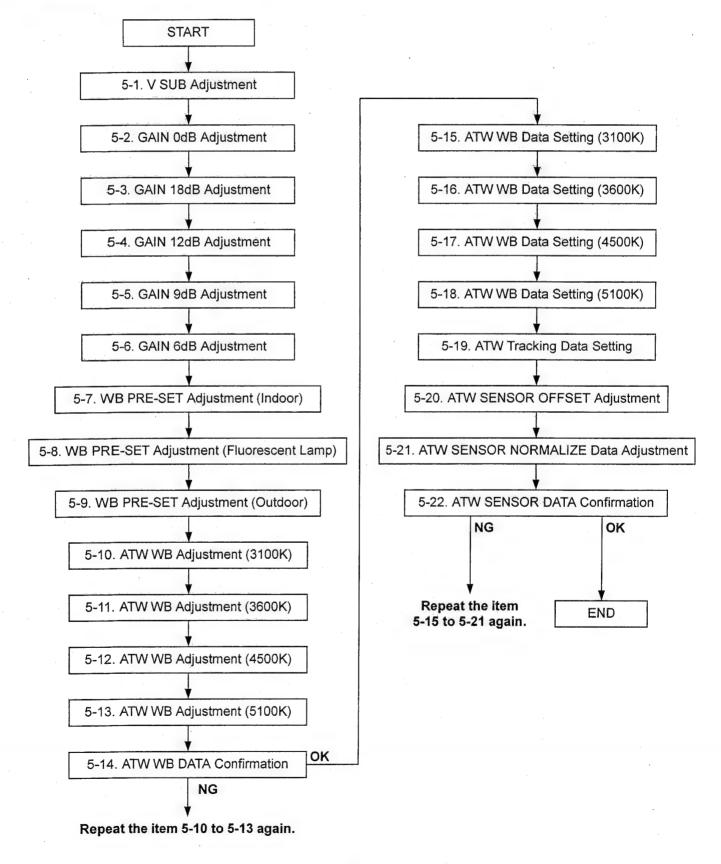
Pleas set as same as "4-2. CUE REC Level Adj." condition.

- 1. Play back the alignment tape and measure level at TP1002(take memo).
- Make self record and play back, and adjust VR1002 so that play back level becomes within specification for previous step 1 level.

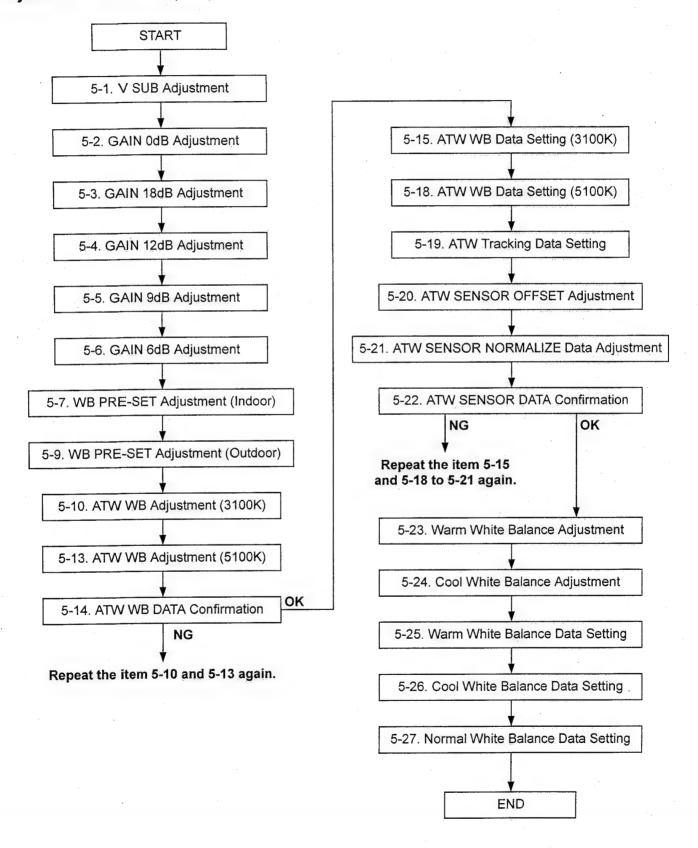
After completed this adjustment make sure Dolby set to ON mode by PC-EVR.

5. CAMERA

Adjustment Flowchart (NTSC)



Adjustment Flowchart (PAL)



All camera adjustment items using the PC-EVR.

Lighting set up: 3200K, 2000Lux

5-1. V SUB Adjustment

Select "1. VSUB_CUR_ADJUSTMENT".

	IRIS : AUTO
	GAIN: 0dB
SETTING	AWB: MEM
	OUTPUT : CAM
	SHUTTER: OFF
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to **[All Steps]** and press Enter key, then automatically set the fixed data into **EEPROM**.

- ✓ Make sure selected top line on adjustment item on screen.
- * After completed this adjustment, press F1(File) and select HD Read.

5-2. GAIN 0dB Adjustment

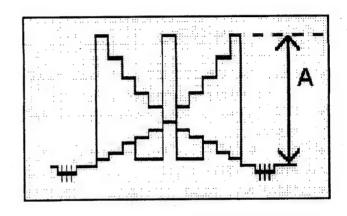
Select "2. CAMERA_GAIN_ADJUSTMENT" for all Gain adjustments (Item No. 5-2 to 5-6).

SETTING	IRIS : MANUAL GAIN : 0 dB AWB : MEM
	OUTPUT : CAM
	SHUTTER: OFF
TEST	P6603 Pin 4 : AGC out (R)
	P6603 Pin 1 : GND
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Oscilloscope, Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

✓ Make sure selected top line of adjustment menu. [1. CAMERA_GAIN(0dB)]

- 1. Perform Line No.1 "ADmin_R=160" to Line No.7 "AGCmin_R=0".
- 2. Adjust IRIS on the Lens so that Level (A) of P6603 pin 4 (AGC R) becomes 250mV.
- 3. Select "AGCmin_G=" and adjust the dot is at center of the vector scope by ↑↓ key.
- 4. Select "AGCmin_B=" land adjust the dot is at center of the vector scope by ↑↓ key.
- 5. Repeat above 3 and 4, then press ESC key to next step.



5-3. GAIN 18dB Adjustment

SETTING	IRIS : MANUAL GAIN : 0 dB
	AWB: MEM
	OUTPUT : CAM
	SHUTTER : OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

✓ Make sure selected line of adjustment menu.
[10. CAMERA_GAIN(18dB)]

- Select "AGCmax_18G=" and adjust the dot is at center of the vector scope by ↑↓ key.
- Select "AGCmax_18B=" and adjust the dot is at center of the vector scope by ↑↓ key.
- 3. Repeat above 1 and 2, then press ESC key to next step.

5-4. GAIN 12dB Adjustment

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [14. CAMERA_GAIN(12dB)]
- Select "AGCmax_12G=" and adjust the dot is at center of the vector scope by ↑↓ key.
- 2. Select "AGCmax_12B=" and adjust the dot is at center of the vector scope by ↑↓ key.
- 3. Repeat above 1 and 2, then press ESC key to next step.

5-5. GAIN 9dB Adjustment

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF	
LIGHT	3200K Halogen	
CHART	Gray Scale	
M.EQ	Vector Scope	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [17. CAMERA_GAIN(9dB)]
- Select "AGCmax_9G=" and adjust the dot is at center of the vector scope by ↑↓ key.
- Select "AGCmax_9B=" and adjust the dot is at center of the vector scope by ↑↓ key.
- 3. Repeat above 1 and 2, then press ESC key to next step.

5-6. GAIN 6dB Adjustment

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [20. CAMERA_GAIN(6dB)]
- Select "AGCmax_6G=" and adjust the dot is at center of the vector scope by \u22a4 key.
- Select "AGCmax_6B=" and adjust the dot is at center of the vector scope by ↑↓ key.
- Repeat above 1 and 2, and perform Line No.23 "SYNC" then press ESC key and select STOP to EXIT.

5-7. WB PRE-SET Adjustment (Indoor)

Select "3. WB_PRE-SET_ADJUSTMENT" for all Gain adjustments (item No. 5-7 to 5-9).

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [1. WB_PRE-SET_ADJUSTMENT(INDOOR)]
- Perform Line No.1 to 3 "AWB_R=0X50, AWB_B=0X70" and confirm the dot is at center of the vector scope.
- 2. Select "AWB=indoorset" and adjustment performed automatically.

5-8. WB PRE-SET Adjustment (NTSC only) (Fluorescent Lamp)

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
TEST	
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [5. WB_PRE-SET_ADJUSTMENT(3600K)]
- 1. Put the CC filter (VFK1341:LB40) on front of the Lens.
- 2. Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- 3. Select "AWB=fluoreset" and adjustment performed automatically.

Note: When executing the "AWB=Setting" command, first, confirm that the white balance has been completed. only then, advance to the next line (command).

5-9. WB PRE-SET Adjustment (Outdoor)

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- √ Make sure selected line of adjustment menu.

 <a href="https://www.ncsen.com/ncsen
- [7. WB_PRE-SET_ADJUSTMENT(5100K)] <PAL>

[5. WB_PRE-SET_ADJUSTMENT(OUTDOOR)]

- 1. Put the CC filter (VFK1347:LB120) on front of the Lens.
- 2. Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- 3. Select "AWB=outdoorset" and adjustment performed automatically.
- * Installation of CC filter
- (1) Remove the lens foot. Then, attach the CC filter holder ring (VFK 1346) to the front side of the lens, and install the CC filter holder (VFK1345).
- (2) Remove the CC filter support of the holder, and install the specified filter. Then, start the adjustment.

5-10. ATW WB Adjustment (3100K)

Select "3. ATW:WB_ADJUSTMENT" for all Gain adjustments (item No. 5-10 to 5-13).

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	Vector Scope

Press F5(Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu.
 - [1. ATW:WB ADJUSTMENT(3100K)]
- 1. Make sure no filter on the Lens.
- Select "AWB_R=0X50", AWB_B=0X70 line and confirm the dot is at center of the vector scope.
- 3. Select "AWB=3100set" and adjustment performed automatically.

5-11. ATW WB Adjustment (3600K) (NTSC only)

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
TEST	
CHART	Gray Scale
M.EQ	Vector Scope

Press F5(Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [4. ATW:WB_ADJUSTMENT(3600K)]
- 1. Put the CC filter(VFK1341: LB40) on front of the Lens.
- 2. Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- 3. Select "AWB=3600set" and adjustment performed automatically.
- * Installation of CC filter
- (1) Remove the lens foot. Then, attach the CC filter holder ring (VFK 1346) to the front side of the lens, and install the CC filter holder (VFK1345).
- (2) Remove the CC filter support of the holder, and install the specified filter. Then, start the adjustment.

5-12. ATW WB Adjustment (4500K) (NTSC only)

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
TEST	
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [6. ATW:WB ADJUSTMENT(4500K)]
- 1. Put the CC filter(VFK1342 : LB80) on front of the Lens.
- 2. Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- 3. Select "AWB=4500set" and adjustment performed automatically.

Note: When executing the "AWB=Setting" command, first, confirm that the white balance has been completed. only then, advance to the next line (command).

5-13. ATW WB Adjustment (5100K)

	IRIS: MANUAL
	GAIN: 0 dB
SETTING	AWB : MEM
	OUTPUT : CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	Vector Scope

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- [8. ATW:WB_ADJUSTMENT (5100K)] <PAL>

[4. ATW:WB_ADJUSTMENT (5100K)]

- Put the CC filter(VFK1347: LB120) on front of the Lens.
- Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- 3. Select "AWB=5100set" and adjustment performed automatically.

5-14. ATW WHITE BALANCE DATA Confirmation

Select "5. ATW:WB_DATA_ADJUSTMENT" for all Gain adjustments (item No. 5-14 to 5-18).

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	Not Required
CHART	
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

✓ Make sure selected line of adjustment menu. [1. ATW_WB_DATA_CHECK]

Select "ATWADJ=Gaincheck" and perform it, then confirm "OK" display appear on the Screen. If appear "NG", re-adjust item 5-10 to 5-13 again.

5-15. ATW WB Data Setting (3100K)

SE	TTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER; OFF
L	IGHT	3200K Halogen
С	HART	Gray Scale
ı	M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [2. ATW_WB_DATA_SETTING (3100K)]
- 1. Make sure no filter on front of the Lens.
- 2. Select "ATWADJ=3100ATW" and adjustment performed automatically.

5-16. ATW WB Data Setting (3600K) (NTSC only)

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
TEST	
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [3. ATW WB DATA_SETTING (3600K)]
- 1. Put the CC filter (VFK1341:LB40) on front of the Lens.
- 2. Select "ATWADJ=3600ATW" and adjustment performed automatically.

5-17. ATW WB Data Setting (4500K) (NTSC only)

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
TEST	
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu.
 - [4. ATW_WB_DATA_SETTING (4500K)]
- Put the CC filter (VFK1342:LB80) on front of the Lens.
- 2. Select "ATWADJ=4500ATW" and adjustment performed automatically.

5-18. ATW WB Data Setting (5100K)

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

 $\sqrt{\mbox{ Make}}$ sure selected line of adjustment menu.

<NTSC>

[5. ATW_WB_DATA_SETTING (5100K)] <PAL>

[3. ATW_WB_DATA_SETTING (5100K)]

- Put the CC filter (VFK1347:LB80) on front of the Lens.
- 2. Select "ATWADJ=5100ATW" and adjustment performed automatically.

5-19. ATW Tracking Data Setting

Select "6. ATW:SENSOR_ADJUSTMENT" for adjustments item No. 5-19 to 5-27

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	Not Required
CHART	
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu.
 - [1. ATW TRACKING_SETTING]
- Select "ATWADJ=Tracking" and adjustment performed automatically.

After this adjustment, the Power OFF/ON of the unit.

5-20. ATW SENSOR OFFSET Adjustment

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu.
 [2. ATW:SENSOR_OFFSET_SETTING]
- 1. Make sure no filter on front of the Lens.
- Select "ATWADJ=Sensor_OFFset" and adjustment performed automatically.

Confirm that the "OK" message is displayed on the PC screen. If the "NG" message is displayed, perform the adjustment process from 5-15 to 5-19 again.

5-21. ATW SENSOR NORMALIZE Data Adjustment

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [3. ATW:SENSOR_DATA_NORMALAIZE]
- Put the CC filter (VFK1347: LB120) on front of the ATW Sensor.
- Select "ATWADJ=Sensor_Normalize" and adjustment performed automatically.

After this adjustment, the Power OFF/ON of the unit.

Confirm that the "OK" message is displayed on the PC screen. If the "NG" message is displayed, perform the adjustment process from 4-15 to 4-21 again.

5-22. ATW SENSOR DATA Confirmation

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen + LB120 Filter
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [4, ATW:SENSOR_CHECK]
- Put the CC filter (VFK1347: LB120) on front of the ATW Sensor.
- 2. Select "ATWADJ=Sensor Check" and perform it, then confirm "OK" display appear on the Screen. If appear "NG", re-adjust item 5-15 to 5-21 again.

Confirm that the "OK" message is displayed on the PC screen. If the "NG" message is displayed, perform the adjustment process from 4-15 to 4-21 again.

5-23. Warm White Balance Adjustment (PAL only)

•	
SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen + LA40 Filter
CHART	Gray Scale
M.EQ	

Press F5(Mode) key and set mode to [1 Step] and press Enter key.

- ✓ Make sure selected line of adjustment menu. [5. TW:WARM_WHITE_BALANCE_SETTING]
- 1. Put the CC filter (VFK : LA40) on front of the
- Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- Select "AWB=WWset" and adjustment performed automatically.

5-24. Cool White Balance Adjustment (PAL only)

	The second secon
SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	3200K Halogen + LB40 Filter
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu. [7. ATW:COOL_WHITE_BALANCE_SETTING]
- Put the CC filter (VFK1341: LB40) on front of the Lens.
- Select "AWB=setting" and automatically adjust white balance and confirm the dot is at center of the vector scope.
- Select "AWB=CWset" and adjustment performed automatically.

5-25. Warm White Balance Data Setting (PAL only)

SETTING	IRIS: MANUAL
	GAIN: 0 dB
	AWB: MEM
	OUTPUT : CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LA40 Filter
CHART	Gray Scale
M.EQ	+

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu.
 [9. ATW:WARM_WHITE_BALANCE_DATA]
- Put the CC filter (VFK: LA40) on front of the Lens
- 2. Select "AWBADJ=WWATW" and adjustment performed automatically.

5-26. Cool White Balance Data Setting (PAL only)

	IRIS : MANUAL
	GAIN: 0 dB
SETTING	AWB: MEM
	OUTPUT : CAM
	SHUTTER: OFF
LIGHT	3200K Halogen + LB40 Filter
CHART	Gray Scale
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- √ Make sure selected line of adjustment menu. [10. ATW:COOL_WHITE_BALANCE_DATA]
- 1. Put the CC filter (VFK1341: LB40) on front of the Lens.
- 2. Select "AWBADJ=CWATW" and adjustment performed automatically.

5-27. Normal White Balance Data Setting (PAL only)

SETTING	IRIS: MANUAL GAIN: 0 dB AWB: MEM OUTPUT: CAM SHUTTER: OFF
LIGHT	Not Required
CHART	
M.EQ	

Press **F5(Mode)** key and set mode to **[1 Step]** and press Enter key.

- ✓ Make sure selected line of adjustment menu.
 [11. ATW:NORMAL_WHITE_BALANCE_DATA]
- 1. Select "AWB=NWset" and adjustment performed automatically.

CCD Replacement Procedures

Perform the following steps for the CCD replacement and adjustment.

- 1. Remove the both side panels.
- Disconnect P6601, P6602 and P6605, unscrew 3 screws (A) on the TEST Connection C.B.A.(Fig. CCD1)
- 3. Disconnect P7 on the component side of the VTR MAIN C.B.A. and open this board then disconnect P1 on back side of this C.B.A.
- Unscrews (B) on Front panel and carefully pull the Front panel unit with camera block out to front direction. (Fig. CCD2)
- Unscrews 3 screws (C) on the shield case of CCD unit and remove the shield case. (Fig CCD3)
- 6. Disconnect PP101 on the Sensor C.B.A. (Fig. CCD4)
- Unscrew 3 screws (E) on CCD mount base and carefully remove CCD Prism unit from front panel (Fig. CCD5)
- 8. Replace the new CCD Prism unit and follows reverse way to above stops.

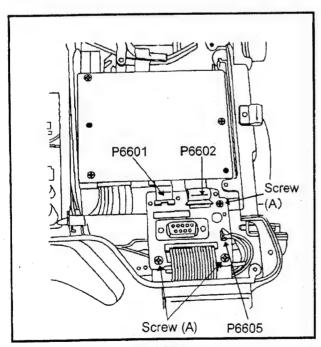


Fig. CCD1

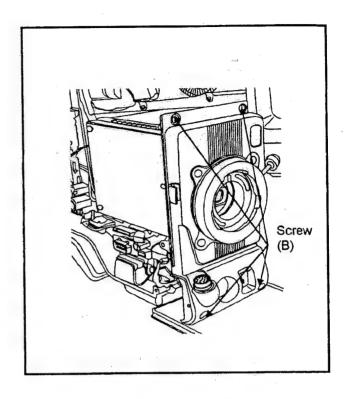


Fig. CCD2

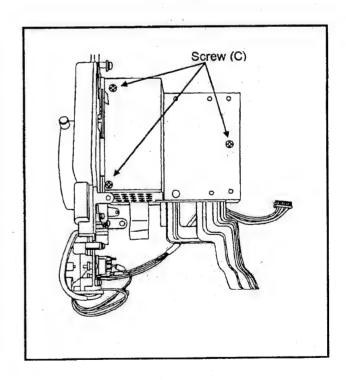


Fig. CCD3

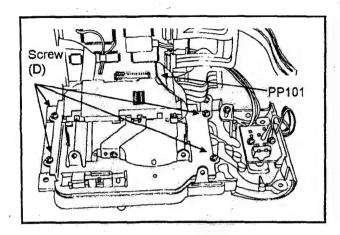


Fig. CCD4

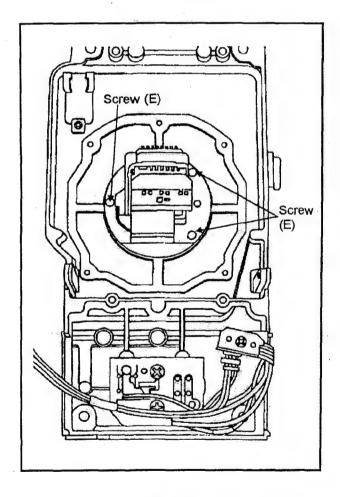
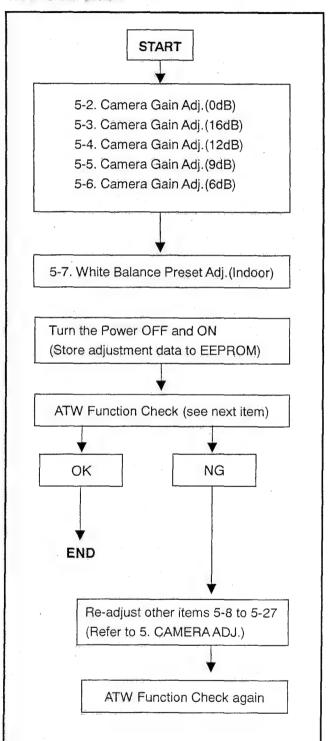


Fig. CCD5

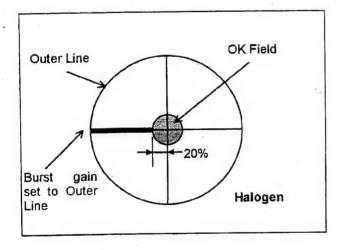
<< Adjustment Flow Chart after Install new CCD unit>>



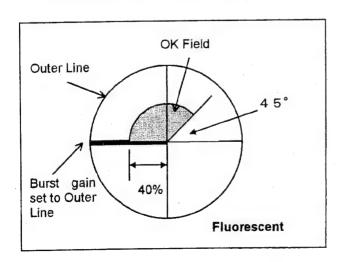
<<ATW Function Check>>

	IRIS: AUTO	
	GAIN: 0 dB	. (1
SETTING	AWB : ATW	
	OUTPUT : CAM	4. 4
	SHUTTER: OFF	No. 10 and 10 an
TEST	VIDEO out	
CHART	Gray Scale	A STATE OF THE STA
M.EQ	Vector Scope	

- 1. The AWB switch on the side panel set to "ATW" mode.
- Confirm the dot is at OK field of the vector scope as shown in below Figure under the Halogen Lamp condition.



- 2. Turn OFF the Halogen Lamp and lighting condition is Fluorescent Lamp.
- 3. Confirm the dot is at OK field of the vector scope as shown in below Figure.



6. ELECTRICAL VIEWFINDER

6-1. Preparation

- 1. Remove the top case of the EVF.
- 2. Connect the EVF to the main unit.
- 3. Supply an external DC to the external Do input of the main unit.

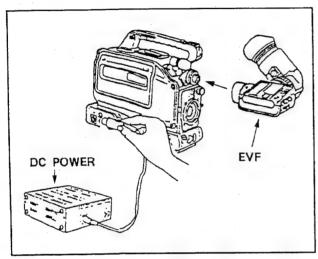


Figure F1.

6-2. Setting of the Controls for Adjustment

Unless otherwise specified, set the controls as shown below.

PEAKING VR : 12 O'clock positionCONTRAST VR : 12 O'clock position

• BRIGHT VR : 12 O'clock position

• CHARACTER SW : OFF • ZEBRA SW : OFF • TALLY SW : OFF

• IRIS SW : M (Manual)

OUTPUT

(CAM/BAR) SW : CAM

6-3. Power Supply Voltage Adjustment

BOARD	V DEF
TP	TP7001
ADJ.	VR7001
TAPE	WITHOUT TAPE
INPUT	NO INPUT SIGNAL
MODE	STOP
M.EQ	D.V.M.
SPEC.	8.6V ± 0.005V DC

Adjust the EVF controls as follows.

• BRIGHT VR : Minimum (fully CCW)

position

• CONTRAST VR : Minimum (fully CCW)

position

 Connect the D.V.M. to TP7001 and adjust VR7001 so that the voltage is 8.6V ± 0.005V.

6-4. H Free Run Frequency Adjustment

BOARD	V DEF
TP	TP7401
ADJ.	VR7002
TAPE	WITHOUT TAPE
INPUT	NO INPUT SIGNAL
MODE	STOP
M.EQ	FREQUENCY COUNTER
CDEC	15.75KHz ± 0.1KHz (NTSC)
SPEC.	15.625KHz ± 0.1KHz (PAL)

 Connect the frequency counter to TP7401 and adjust VR7002 so that the frequency is within the specification.

6-5. V Free Run Frequency Adjustment

BOARD	V DEF
TP	TP7002
ADJ.	VR7006
TAPE	WITHOUT TAPE
INPUT	NO INPUT SIGNAL
MODE	STOP
M.EQ	FREQUENCY COUNTER
SPEC.	50Hz \pm 1Hz(NTSC), 42Hz \pm 1Hz(PAL)

 Connect the frequency counter to TP7002 and adjust VR7006 so that the frequency is within the specification.

6-6. Deflection Yoke Tilt Adjustment

BOARD	
TP	CRT
ADJ.	DEFLECTION YOKE
TAPE	MONOSCOPE OF ALIGNMENT TAPE
INPUT	FROM VTR SECTION
MODE	PLAY
M.EQ	
	PICTURE IS STRAIGHT ON THE
SPEC.	SCREEN

- 1. Disassemble the CRT unit.
 - 1) Remove the top case.
 - 2) Open the H DEF C.B.A.
 - 3) Remove the eye piece unit.
 - 4) Disconnect the connectors P7004 on the Front C.B.A., P7014 on the V DEF C.B.A.. P7009 on the CN C.B.A. and P7013, P7011 on the H DEF C.B.A. so that the CRT unit can be lifted.
 - 5) Shift the outer lock ring, lock ring spacer and inner lock ring to the cable side as shown in Figure F2.

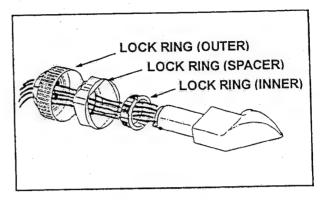


Figure F2

6) Unscrew the screws (A) and (B) as shown in Figure F3.

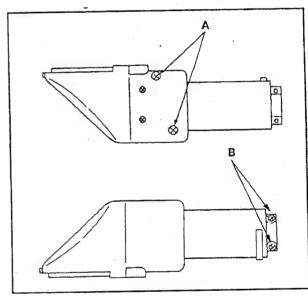


Figure F3.

 Push the portion A as shown in Figure F4 so that the CRT case can be removed.

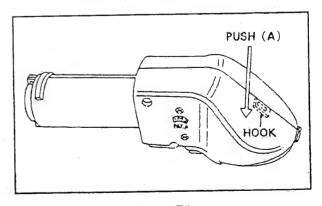


Figure F4

8) Connect the all connectors which have been disconnected in step 4.

- 2. Loosen the clamp band screw holding the deflection yoke as shown in Figure F5.
- Rotate the deflection coil clockwise or counterclockwise so that the picture is straight on the screen as shown in Figure F6.

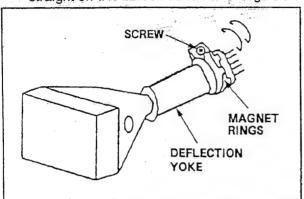


Figure F5.

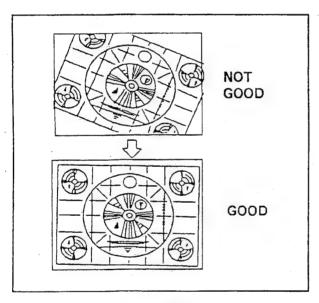


Figure F6.

6-7. Picture Centering Adjustment

BOARD	
TP	CRT
ADJ.	CENTERING MAGNETS
TAPE	MONOSCOPE OF ALIGNMENT TAPE
INPUT	FROM VTR SECTION
MODE	PLAY
M.EQ	
0050	PICTURE IS IN THE CENTER ON THE
SPEC.	SCREEN

 Disassemble the CRT unit. (refer to step 1 of 6-6. Deflection Yoke Tilt Adj.) Rotate the two centering magnets as shown in Figure F4 to center the picture both vertically horizontally as shown in Figure F8.

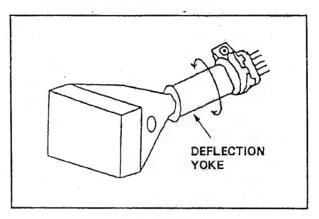


Figure F7.

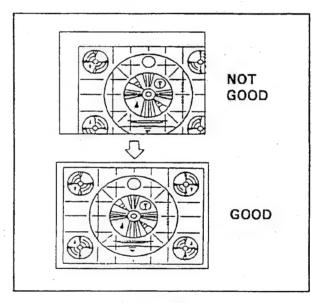


Figure F8.

6-8. Picture Size Adjustment

BOARD	V DEF
TP	SCREEN
ADJ.	VR7004(V), VR7005(H)
TAPE	WITHOUT TAPE
INPUT	FROM INTERNAL COLOR BAR
MODE	STOP
M.EQ	
SPEC.	H=0.5mm, V=0.5mm

- 1. Set the CAM/BAR switch at the BAR position.
- Adjust VR7004(vertical) and VR7005
 (horizontal) so that the V width and H width of the picture frame are 0.5mm as shown in Figure F9.

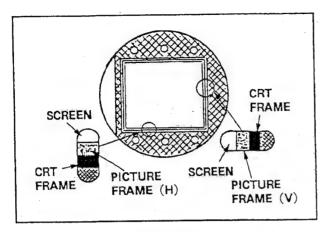
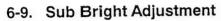


Figure F9.



BOARD	H DEF
TP	
ADJ.	VR7003
TAPE	WITHOUT TAPE
INPUT	FROM CAMERA CECTION
MODE	VTR MODE STOP
M.EQ	OSCILLOSCOPE
SPEC.	RASTER JUST APPEAR

- Connect the scope to the CAMERA OUT. 1.
- Place the unit in the CAM (camera) mode 2. and manual iris mode.
- 3. Aim the camera to a plain white paper and adjust the iris so that the white level is 630mVp-p as shown in Figure F10.
- Adjust the viewfinder controls as follow.
 - BRIGHT VR
- : 3 O'clock position
- CONTRAST VR : Maximum (fully

- clockwise) position
- PEAK VR
- : Minimum (fully counter
 - clockwise) position
- Remove the eyepiece from the viewfinder unit. 5.
- Carefully observe the frame portion of the screen and adjust VR7403 so that the raster is just appeared slightly as shown in Figure F11.

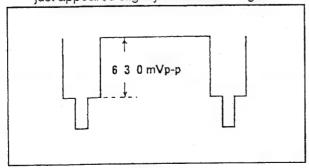


Figure F10.

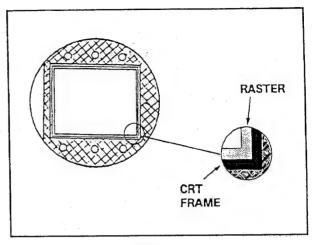


Figure F11.

6-10. Focus Adjustment

Before this adjustment, make sure that the Sub-Bright adjustment is performed.

BOARD	H DEF
TP	
ADJ.	VR7402
TAPE	WITHOUT TAPE
INPUT	FROM CAMERA SECTION
MODE	VTR MODE STOP
M.EQ	
SPEC.	BEST FOCUS

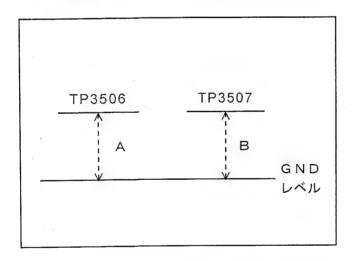
- Connect the monitor TV to the CAMERA 1. OUT.
- Place the unit in the CAM (camera) mode 2. and manual iris mode.
- 3. Aim the camera to a resolution chart or boll chart (VFK0580) and adjust the focus ring to the best focus for the monitor TV.
- Adjust the viewfinder controls as follow.
 - BRIGHT VR
- : 12 O'clock position
- CONTRAST VR : 12 O'clock position
- PEAK VR
- : Minimum (fully CCW)
 - position
- Carefully observe the picture on the 5. viewfinder and adjust VR7402 so the picture is best focus.

7. VTR MAIN P.C. Board

7-1. PLL VCD Adjustment

	The state of the s
P.C.B.	VTR_MAIN
SPEC.	A=B
TEST	TP3506, TP3507
ADJ.	EVR (PLL_VCO)
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KL (Color Bar)
	PAL: VFM3680KL (Color Bar)
M.EQ	Oscilloscope

- 1. Connect the oscilloscope ch1 to TP3506 and ch2 to TP3507.
- Adjust the PLL VCO on EVR so that the A is equal to B.

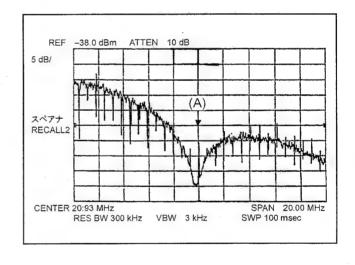


NOTE: Observe at the center of noise (TP3506).

7-2. 1+/D Frequency Adjustment

P.C.B.	VTR_MAIN
SPEC.	A=20.93 ± 0.1MHz
TEST	EYE PAT (50Ω terminated)
ADJ.	EVR
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KL (Color Bar) PAL: VFM3680KL (Color Bar)
M.EQ	Oscilloscope, Spectrum Analyzer

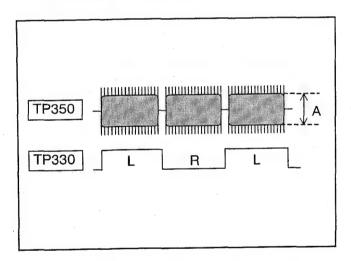
1. Adjust the EQ DL on EVR so that the A is within specification.



7-3. ATF Pre-Filter Gain Adjustment

P.C.B.	VTR_MAIN
SPEC.	A=350 ± 20mVp-p
TEST	TP3502, TP3300
ADJ.	EVR (ATF-GAIN)
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KL (Color Bar)
	PAL: VFM3680KL (Color Bar)
M.EQ	Oscilloscope

- 1. Connect the oscilloscope ch1 to TP3502 and ch2 to TP3300.
- Adjust the ATF GAIN on EVR so that the level A is within specification.



NOTE : Observe L CH (HSW Hi) and adjust at flat portion.

7-4. Playback Picture Confirmation

P.C.B.	VTR_MAIN
SPEC.	Error=MINIMUM
TEST	VIDEO OUT
ADJ.	EVR (See below)
INPUT	
MODE	PLAY
TAPE	NTSC: VFM3580KL (Color Bar) PAL: VFM3680KL (Color Bar)
M.EQ	MONITOR TV

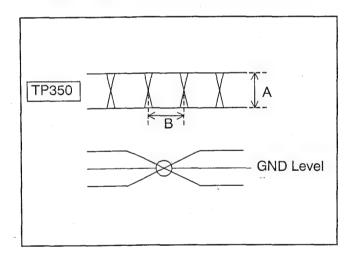
- 1. Playback the alignment tape.
- 2. Observe VIDEO OUT on the Monitor TV.
- 3. Adjust on the EVR in below order so that the error is minimum on the monitor TV.
 - PLL SL
 - PLL POS
 - AUTO EQ
 - EQAL
 - EQ A R
 - EQBL
 - EQBR

NOTE: CONCEAL, INNERECC and OUTERECC turn off before this adjustment.

7-5. HSE Input DUTY Adjustment

P.C.B.	VTR_MAIN
SPEC.	A=1.3 ± 0.1Vp-p, B=24 ± 1nS
TEST	TP3201
ADJ.	VR3200 (DUTY)
INPUT	COLOR BAR
MODE	REC
TAPE	Blank Tape
M.EQ	Oscilloscope

- 1. Confirm that the waveform appear as shown below at REC START.
- Expand the time axis and observe in AC mode against GND standards. Adjust VR3200 so that the cross point is equal to GND level.

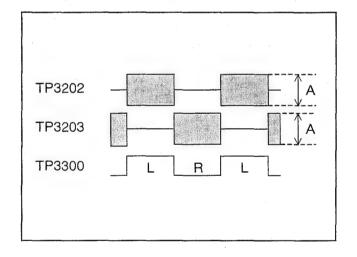


7-6 REC CUR Adjustment

P.C.B.	VTR_MAIN
SPEC.	A=6.0 ± 0.2Vp-p
TEST	TP3202, TP3203, TP3300
ADJ.	EVR (REC_CURL, R)
INPUT	COLOR BAR
MODE	REC
TAPE	Blank Tape
M.EQ	Oscilloscope

- 1. Connect the oscilloscope to above test points.
- 2. Record the color bar signal.
- 3. Observe every point, and adjust EVR so that the level A is within specification.

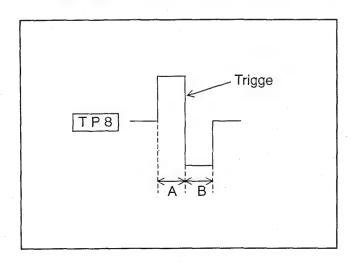
NOTE: Please turn OFF the filter of the oscilloscope.



7-7 AUDIO VCO Adjustment

P.C.B.	VTR_MAIN
SPEC.	A=B
TEST	TP8 (VCO_ADT)
ADJ.	EVR (AUDIO_VCO)
INPUT	COLOR BAR
MODE	E-E
TAPE	
M.EQ	Oscilloscope

- 1. Trigger at the center. (In case triggered at the center, right and left width tremble.)
- 2. Adjust the EVR so that the width A is equal to width B.



7-8 ZEBRA Adjustment

P.C.B.	VTR_MAIN
SPEC.	A=85 ± 5 IRE, B=20 ± 2 IRE
TEST	TP12 (EVF)
ADJ.	EVR (ZEVRA), VR9 (ZEVRA LEV)
INPUT	LAMP
MODE	E-E
TAPE	
M.EQ	Oscilloscope

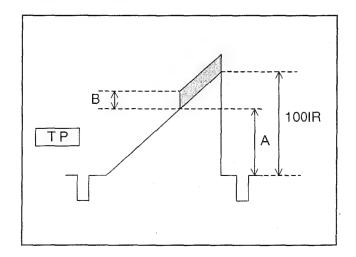
<Remarks>

Level A: Adjust with the EVR. Level B: Adjust with the VR9.

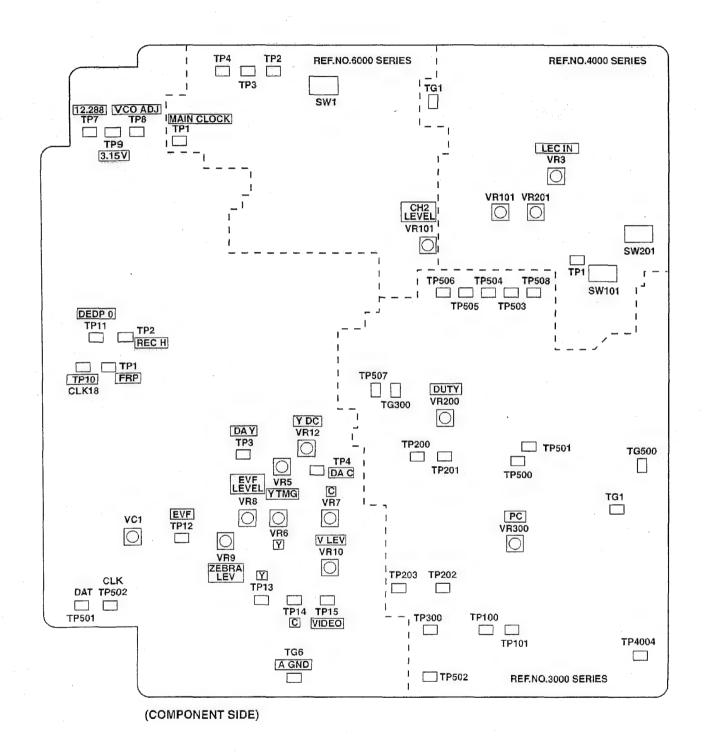
<Switch Setting>

EVF: ZEBRA ON CHARACTER OFF

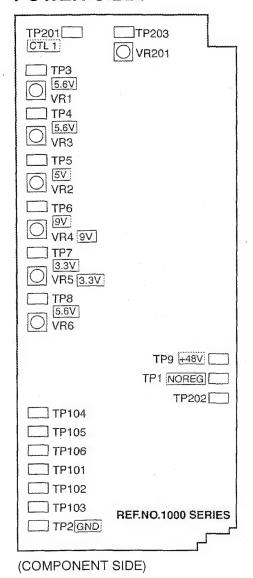
- 1. Adjust EVR so that the level A is within specification.
- 2. Adjust VR9 so that the level B is within specification.
- 3. After complete the adjustment, turn off the ZEBRA.



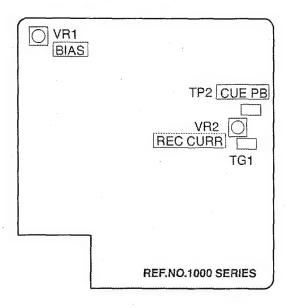
VTR MAIN C.B.A



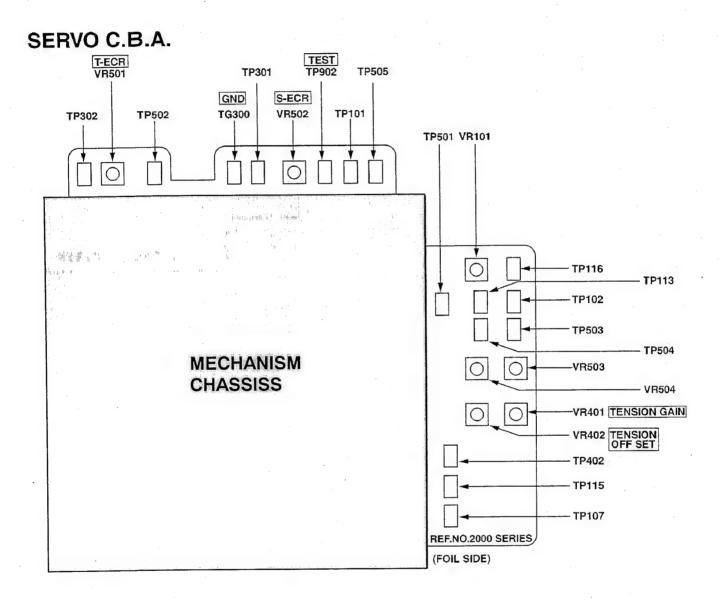
POWER C.B.A



REAR JACK C.B.A



LOCATION OF TEST POINT & CONTROLS

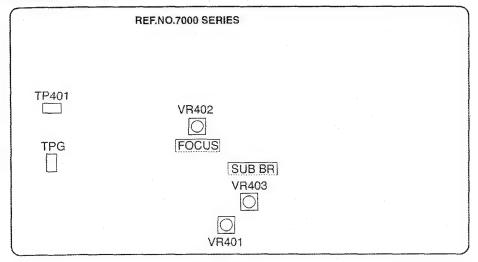


V DEF C.B.A.

VR2 H. HOLD	
VR3 V. LIN	
VR4 V. SIZE	
VR6 V. HOLD TPG	
VR1 +8V	
TP2	REF.NO.7000 SERIES

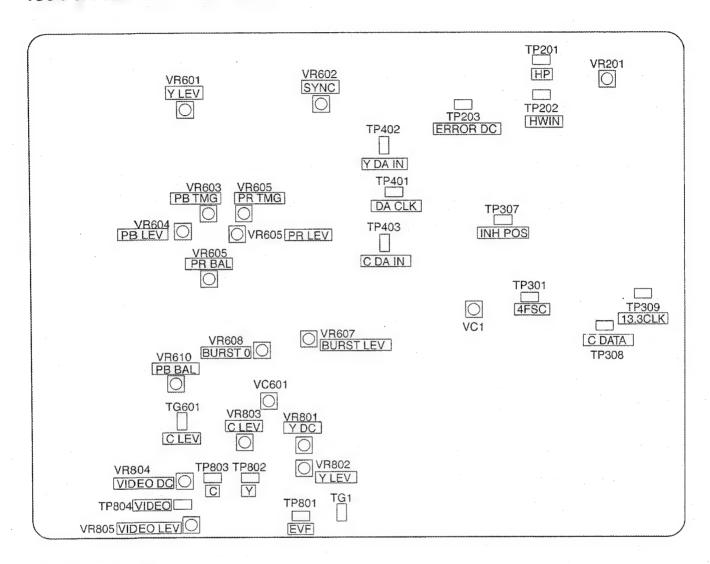
(COMPONENT SIDE)

H DEF C.B.A.



(FOIL SIDE)

1394 & PRE SHUFFLE C.B.A



(COMPONENT SIDE)

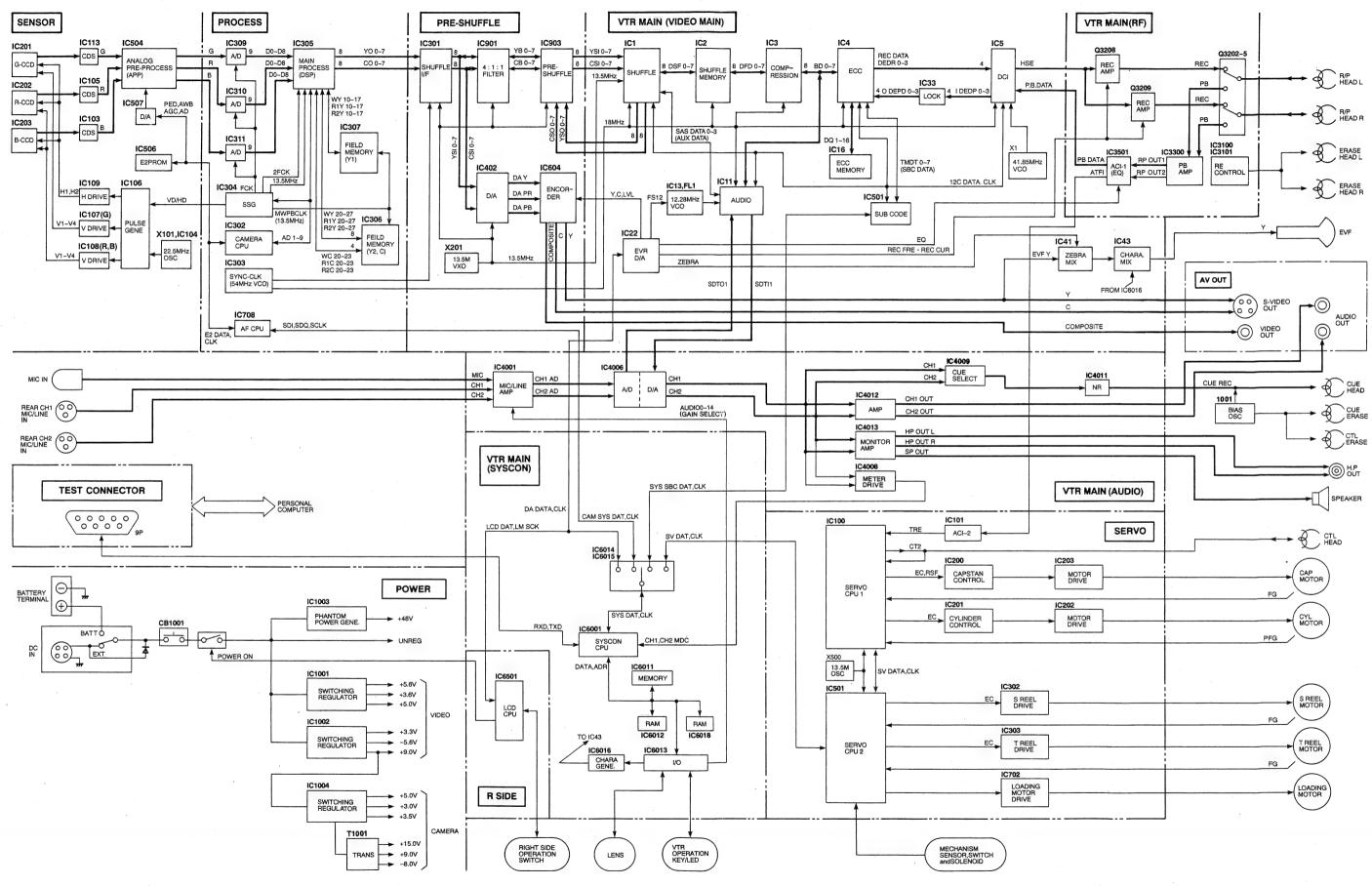
SECTION 5

BLOCK DIAGRAMS

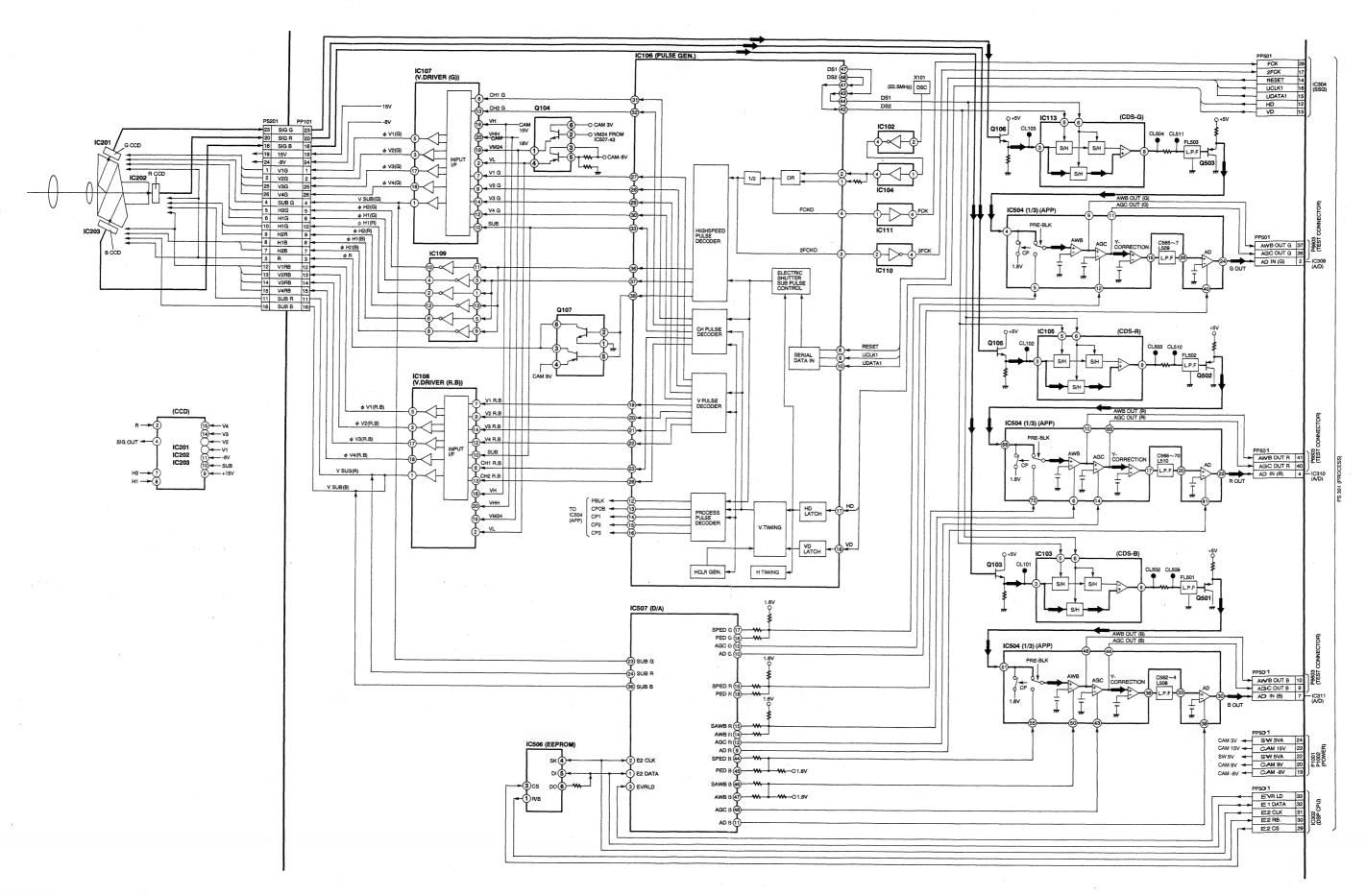
CONTENTS

OVERALL BLOCK DIAGRAM	BLK-2
CCD & SENSOR BLOCK DIAGRAM	BLK-3
PROCESS BLOCK DIAGRAM	BLK-4
1394 & PRE SHUFFLE BLOCK DIAGRAM	BLK-5
VIDEO MAIN BLOCK DIAGRAM	BLK-6
RF BLOCK DIAGRAM	BLK-7
AUDIO & REAR JACK BLOCK DIAGRAM	BLK-8
SYSTEM CONTROL BLOCK DIAGRAM	BLK-9
SERVIC CONTROL BLOCK DIAGRAM	BI K-10

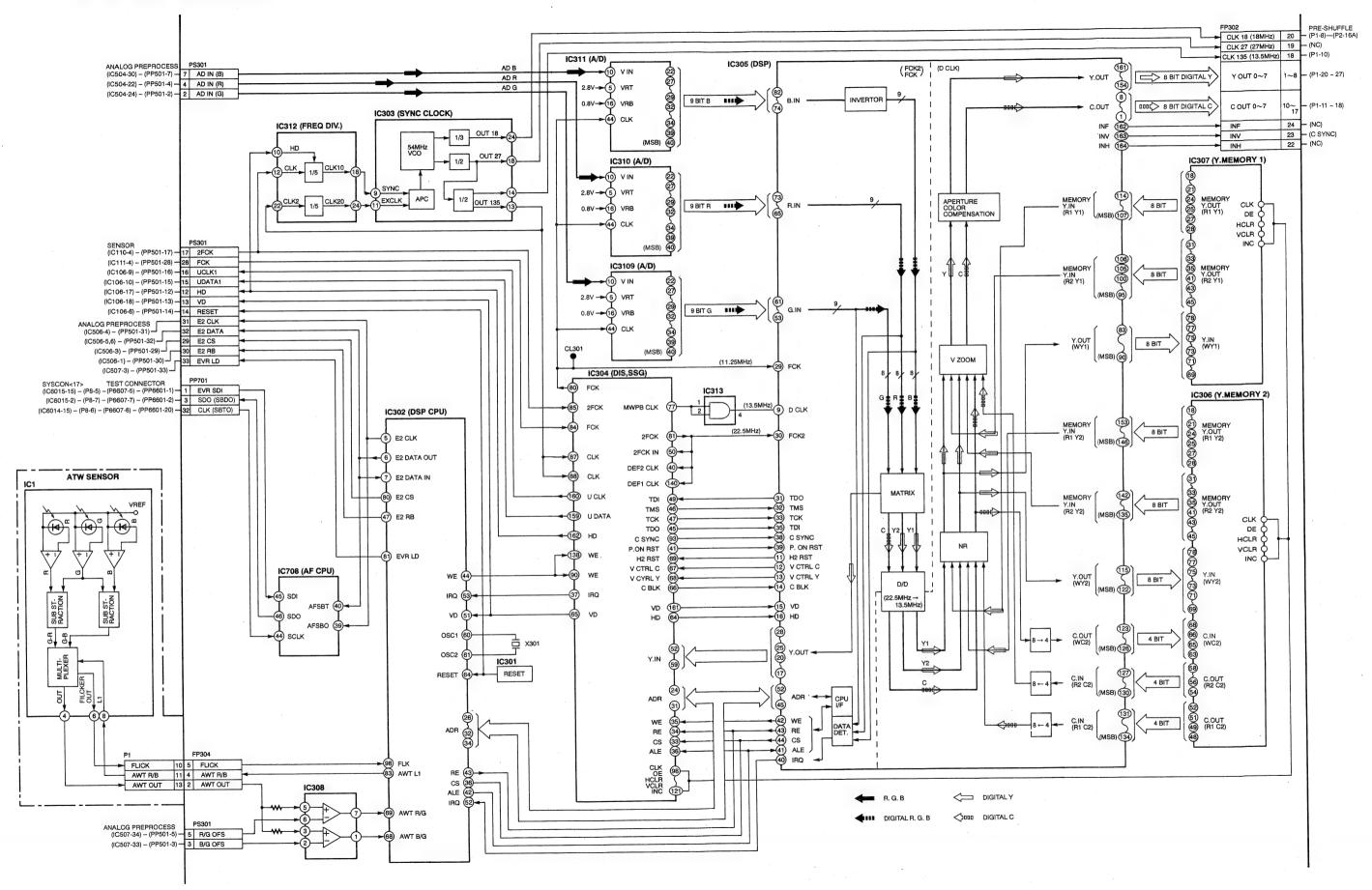
OVERALL BLOCK DIAGRAM



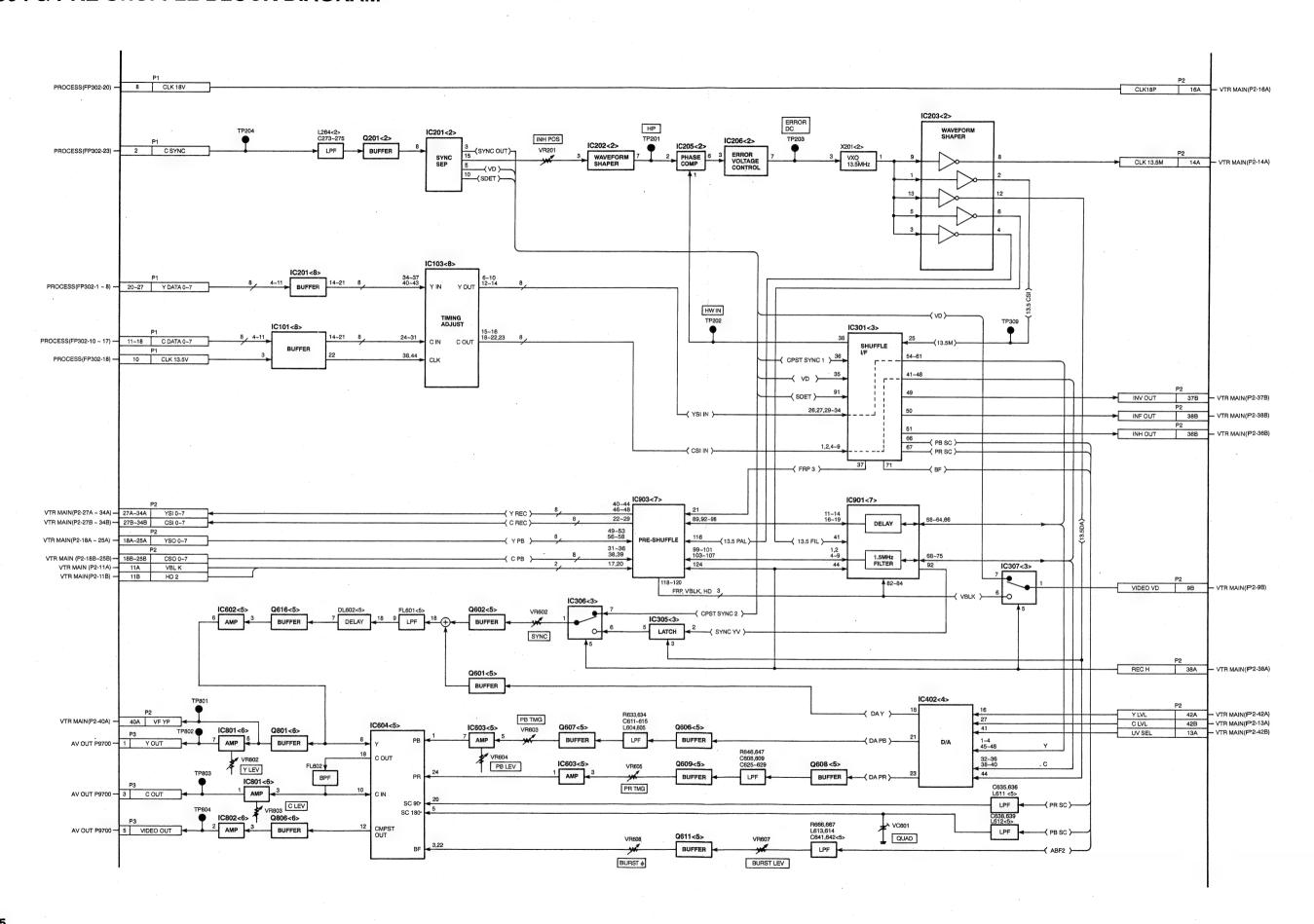
CCD & SENSOR BLOCK DIAGRAM



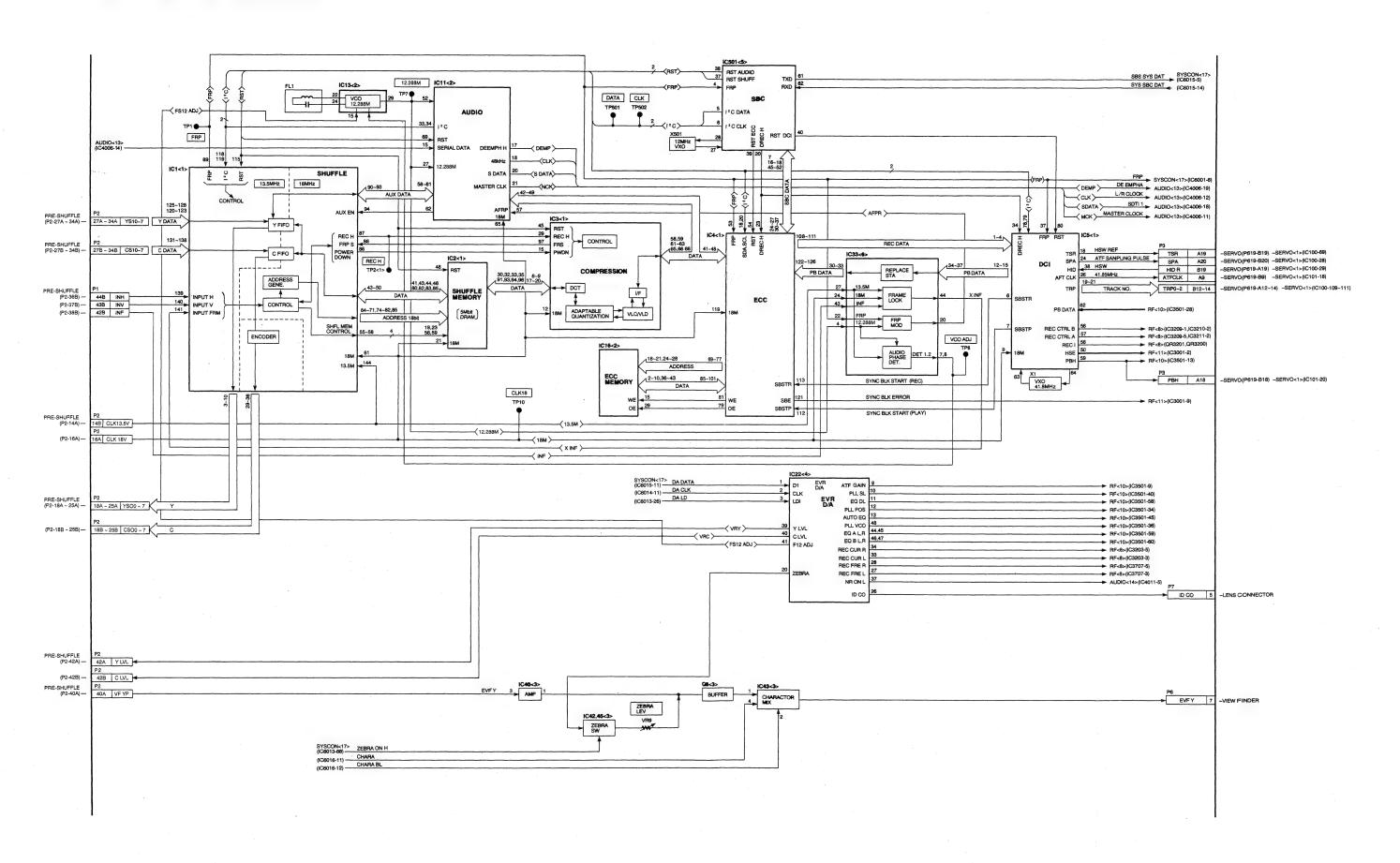
PROCESS BLOCK DIAGRAM



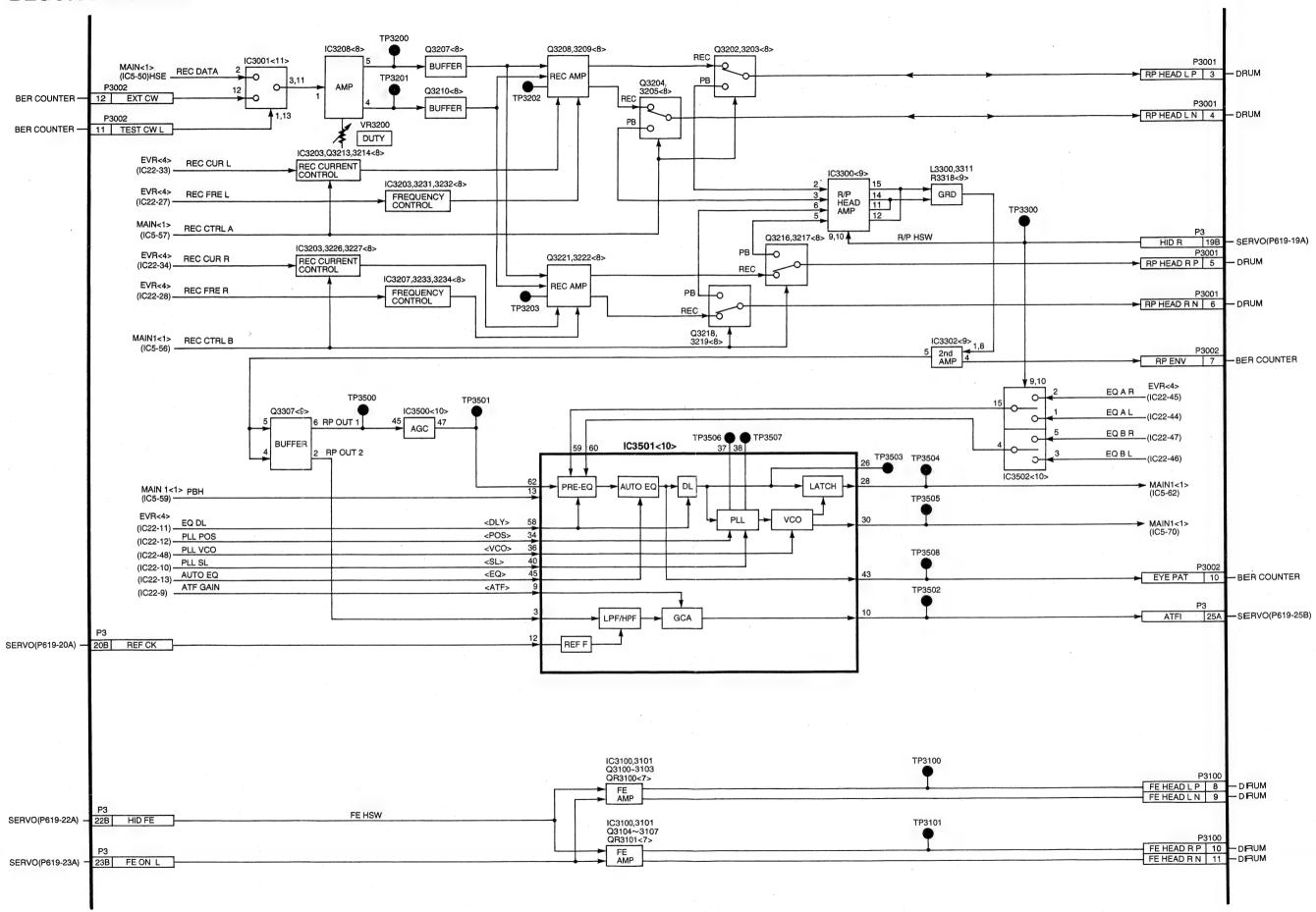
1394 & PRE SHUFFLE BLOCK DIAGRAM



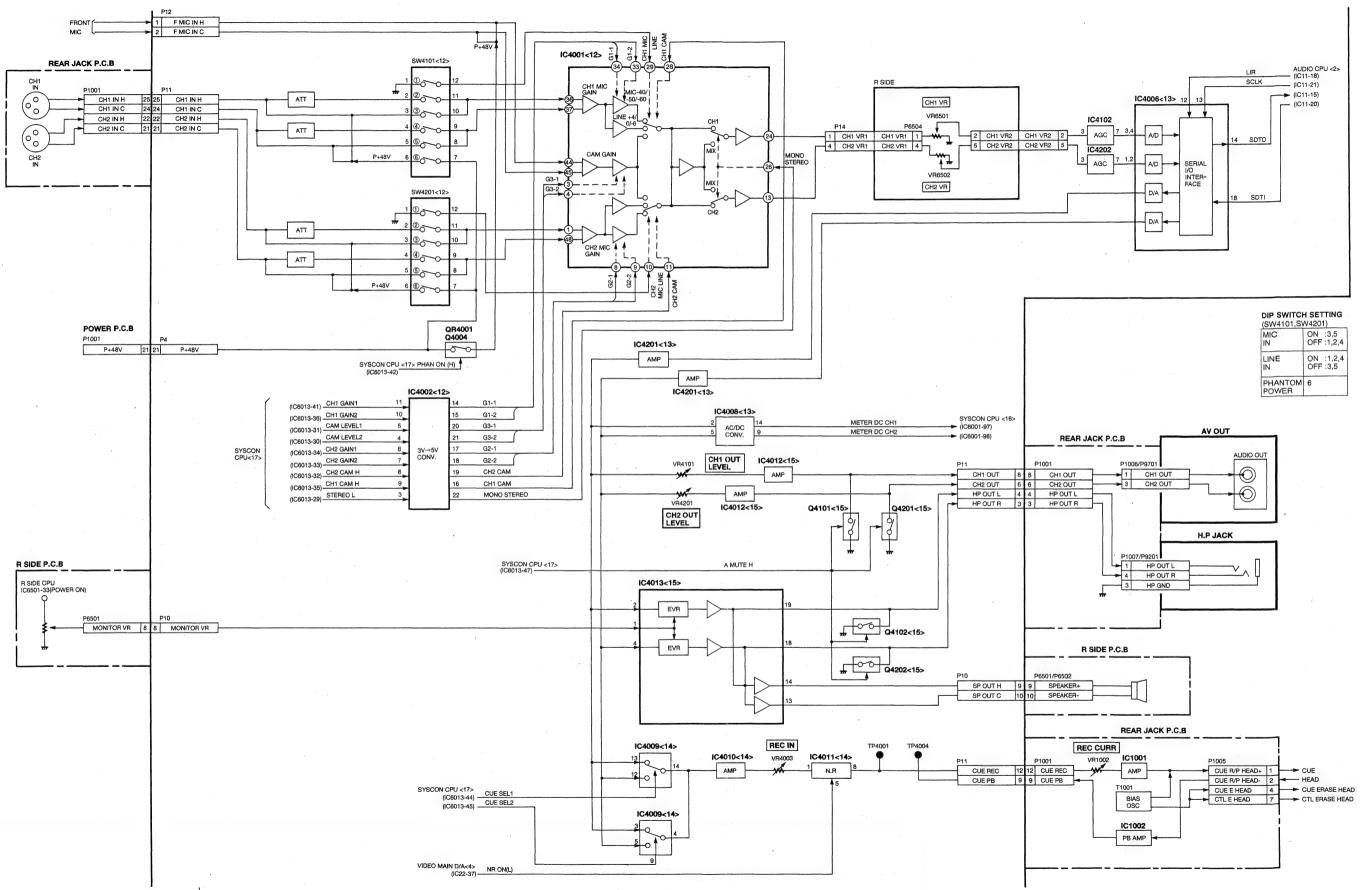
VIDEO MAIN BLOCK DIAGRAM



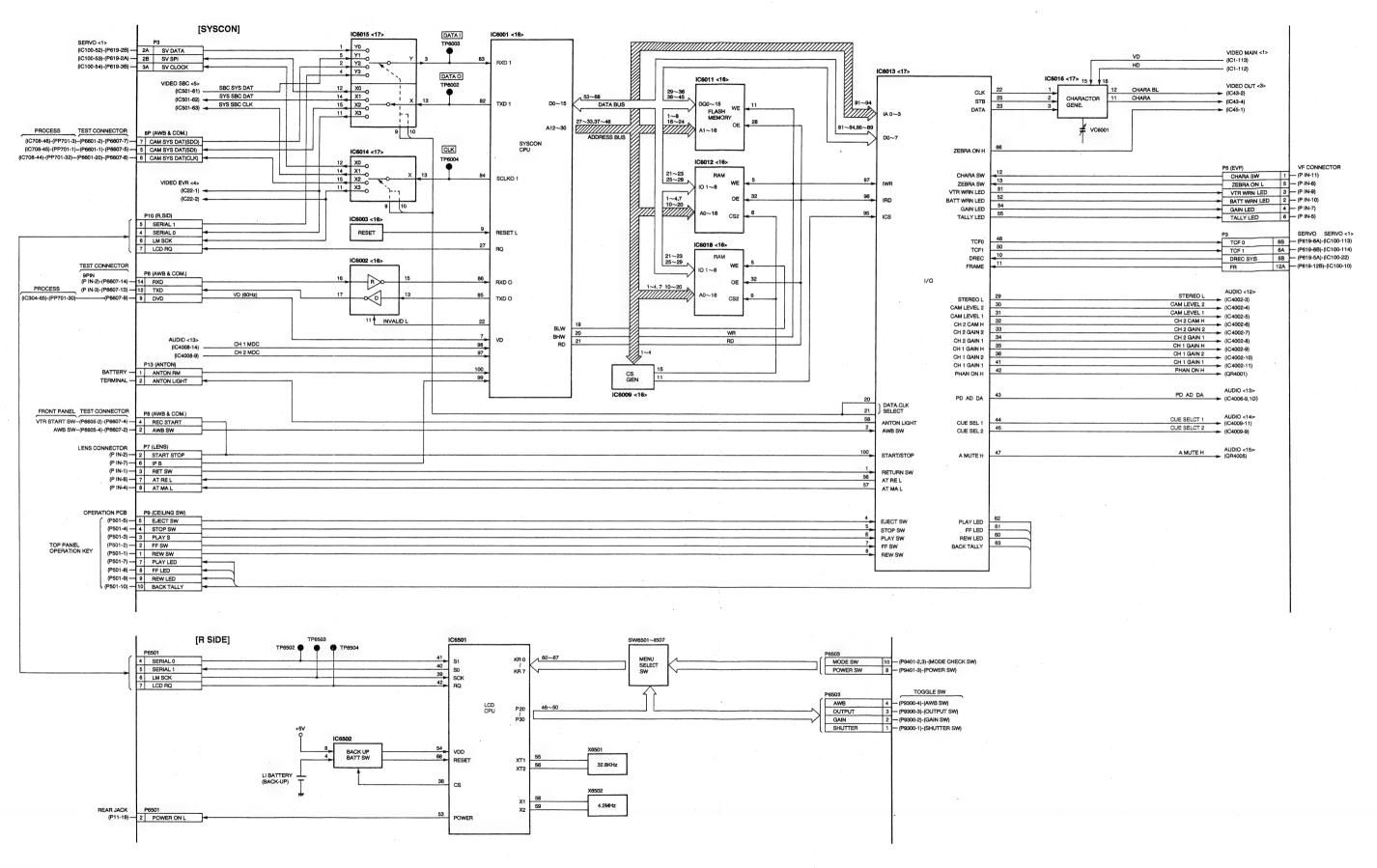
RF BLOCK DIAGRAM



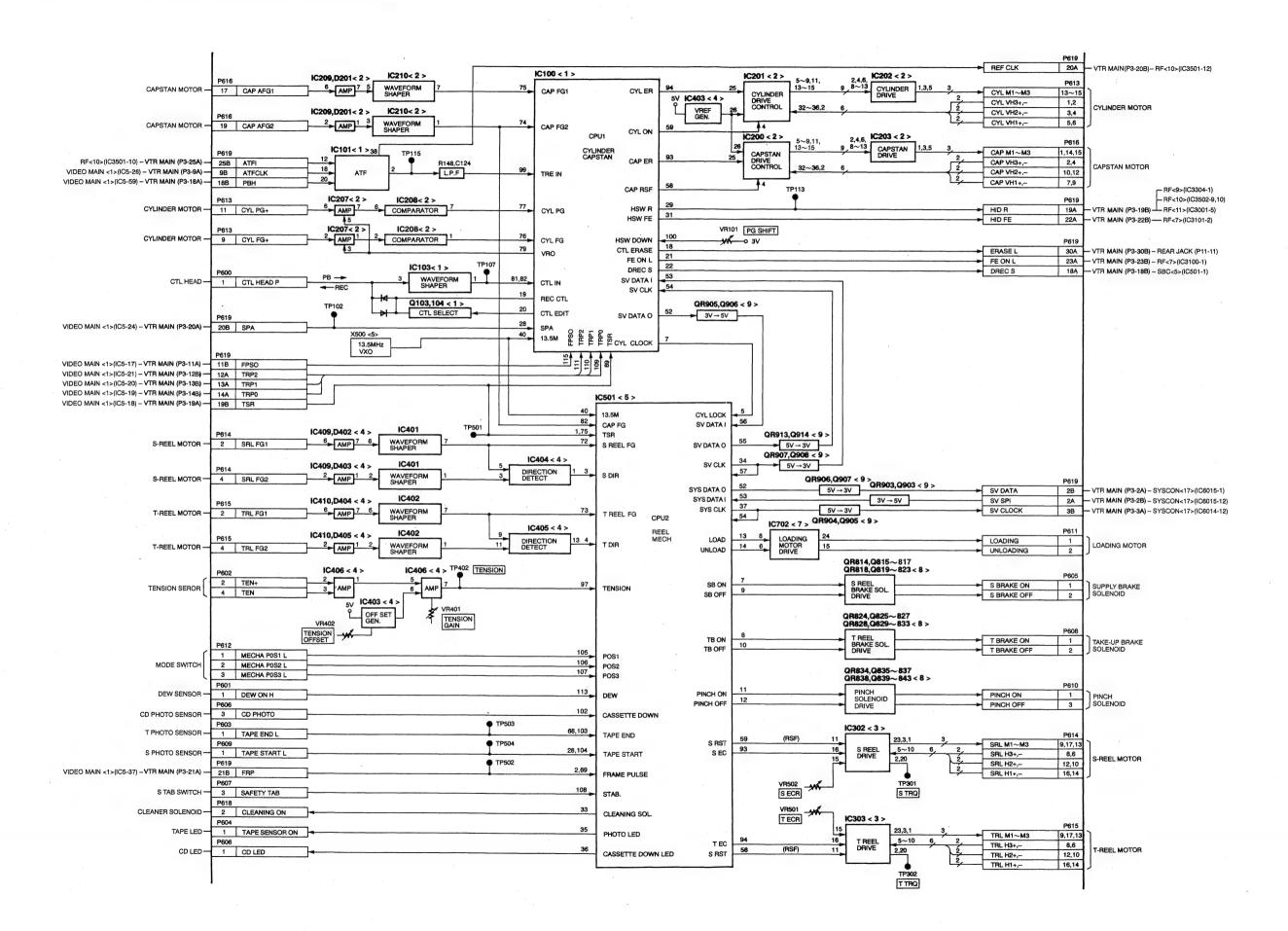
AUDIO & REAR JACK BLOCK DIAGRAM



SYSTEM CONTROL & R SIDE BLOCK DIAGRAM

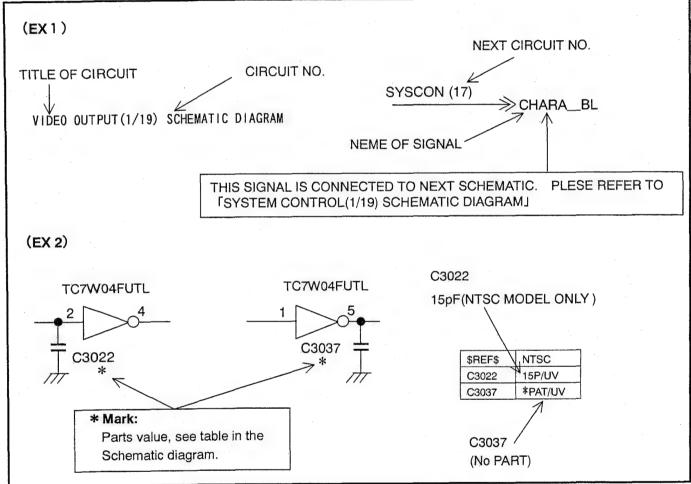


SERVO CONTROL BLOCK DIAGRAM



SCHEMATIC DIAGRAMS

NOTE



IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.

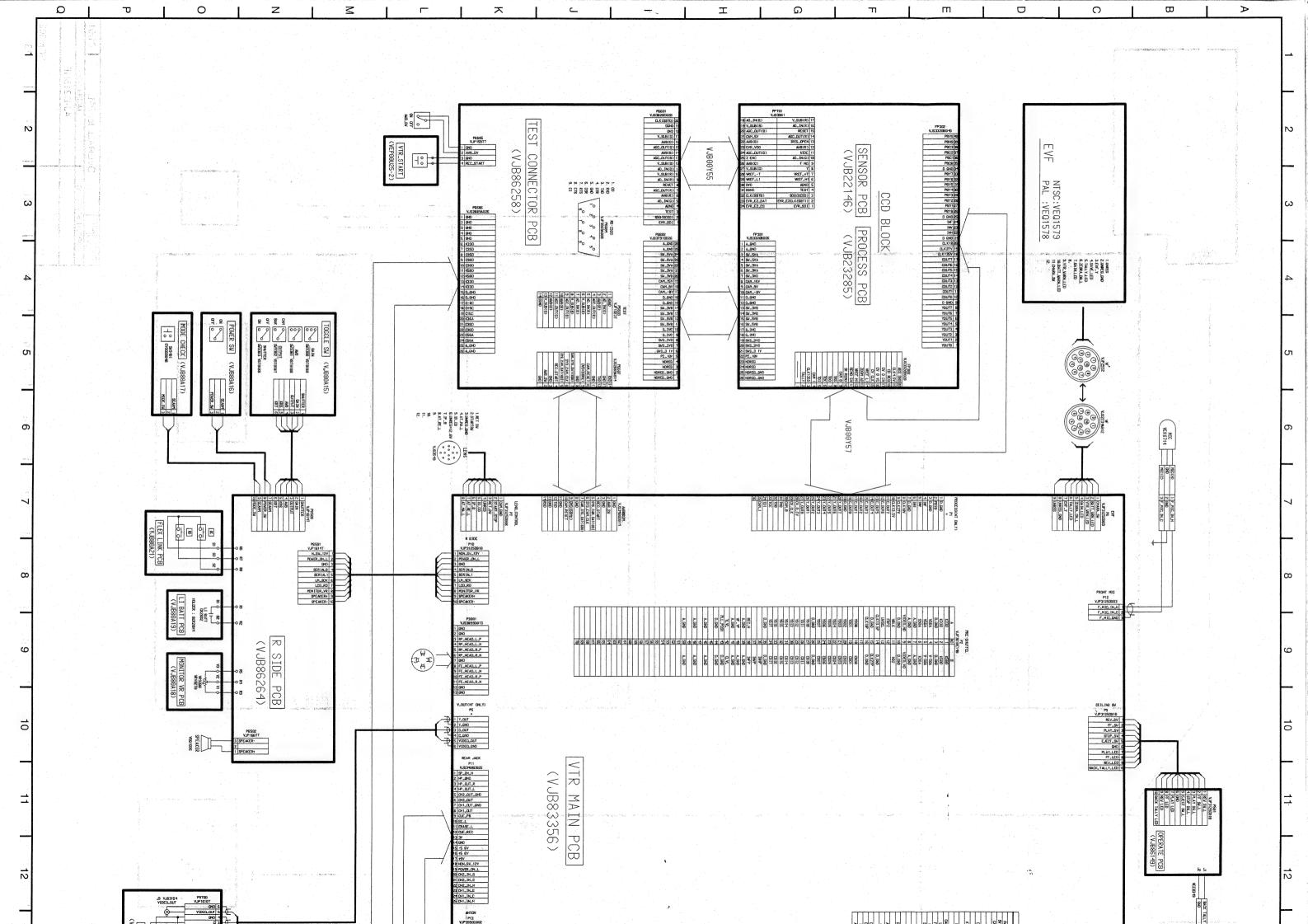
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

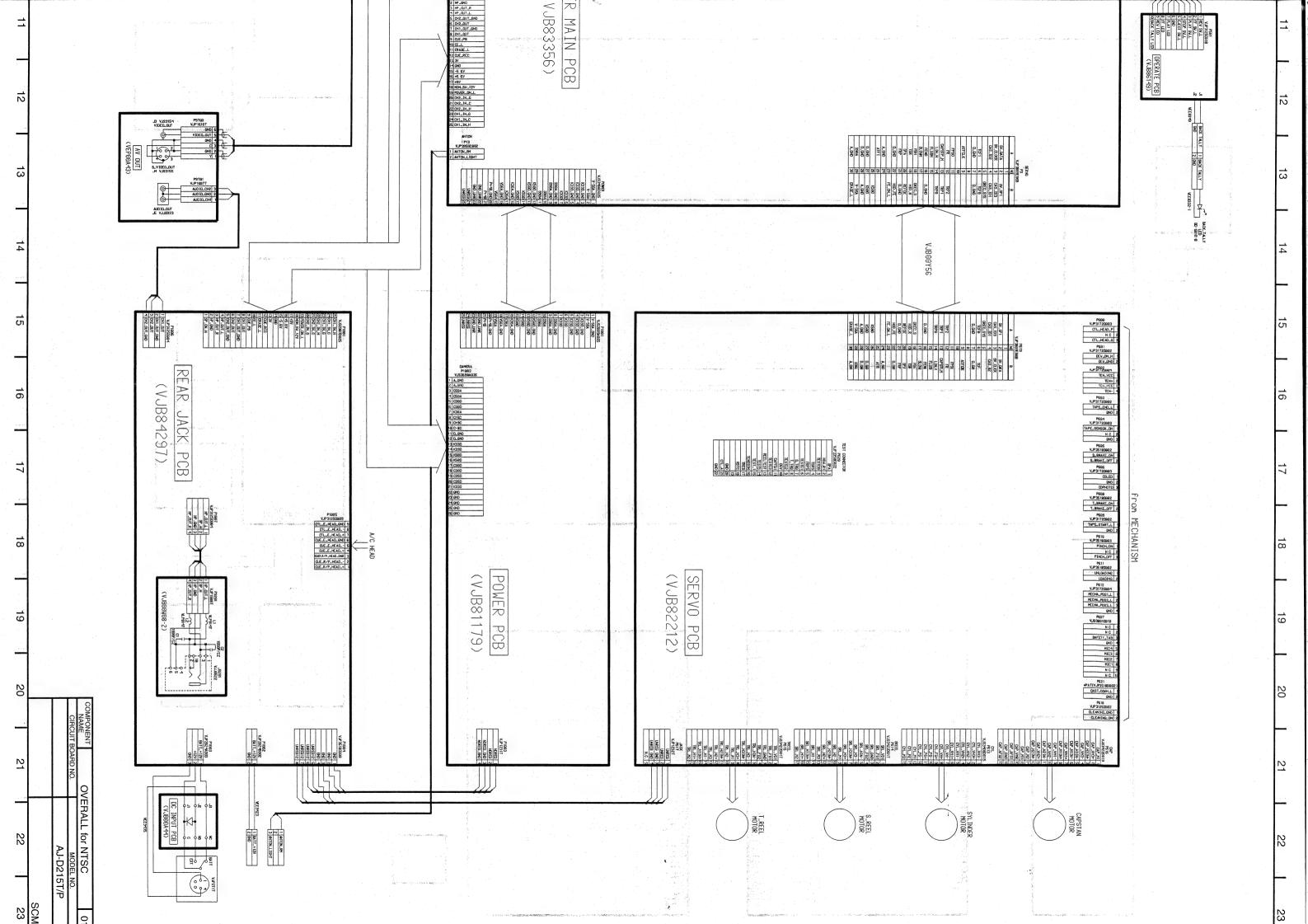
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.

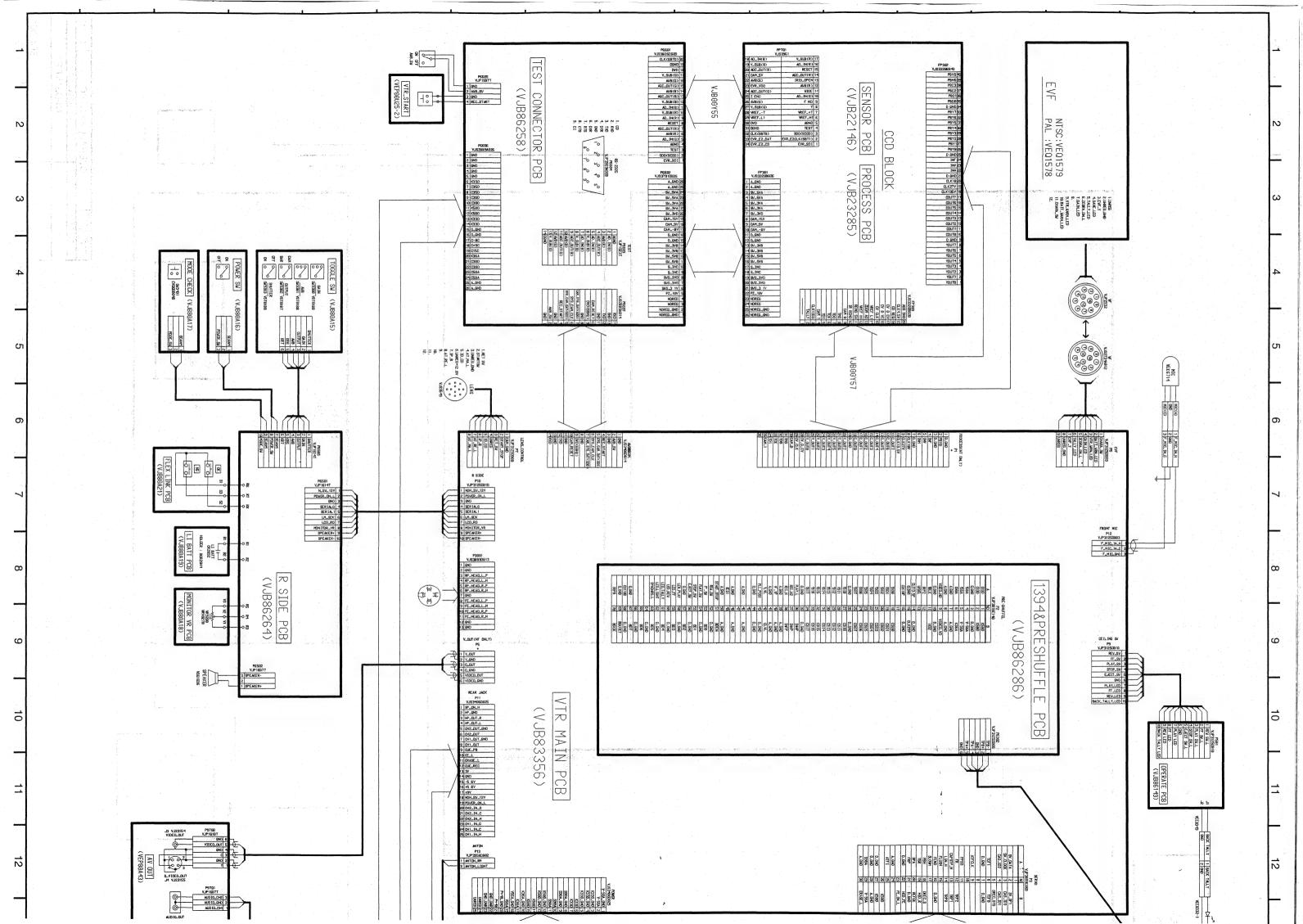
AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WASPREPARED.

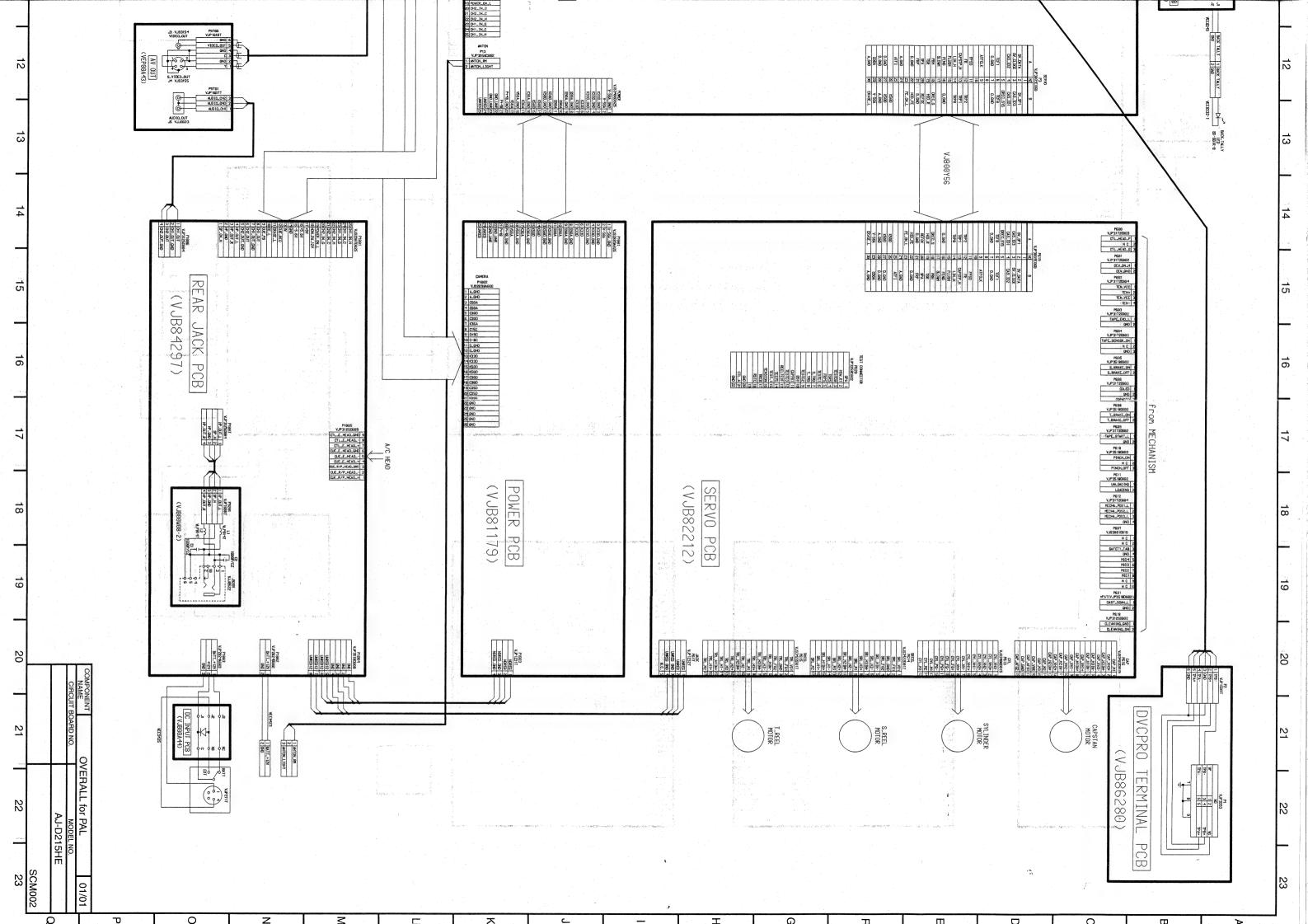
CONTENTS

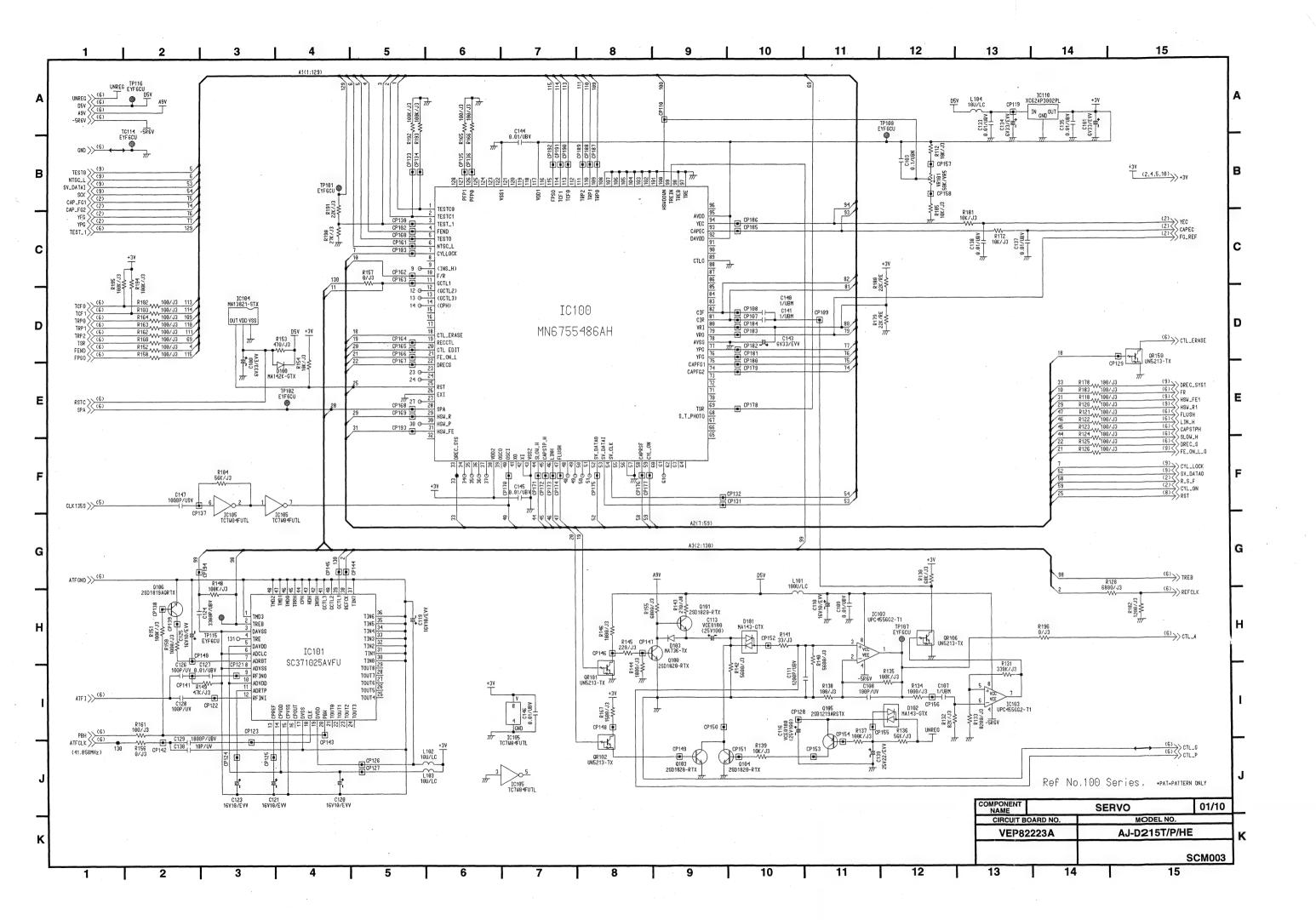
OVERALL for NTSC·····	SCM001
OVERALL for PAL · · · · · · · · · · · · · · · · · · ·	SCM002
SERVO	
REAR JACK·····	
AV OUT for NTAC	
AV PUT for PAL · · · · · · · · · · · · · · · · · · ·	
POWER	SCM017
SERVO VTR FLEX ······	SCM020
VTR MAIN (VIDEO MAIN 1) · · · · · · · · · · · · · · · · · ·	
VTR MAIN (VIDEO MAIN 2) · · · · · · · · · · · · · · · · · ·	
VTR MAIN (VIDEO OUTPUT)	SCM023
VTR MAIN (VIDEO EVR) · · · · · · · · · · · · · · · · · · ·	SCM024
VTR MAIN (VIDEO SBC) ······	SCM025
VTR MAIN (VIDEO LOCK)······	
VTR MAIN (RF) · · · · · · · · · · · · · · · · · · ·	
VTR MAIN (AUDIO AGC)	SCM032
VTR MAIN (AUDIO) ······	SCM033
VTR MAIN (SYSCN)·····	SCM036
VTR MAIN (I/F-1)	SCM038
VTR MAIN (I/F-2) · · · · · · · · · · · · · · · · · · ·	
VTR MAIN (COMPARISON CHART) ·····	SCM040
TEST PLUG·····	SCM041
EVR FLEX ·····	
SENSOR for NTSC·····	
SENSOR for NTSC (ANALOG PREPROCESS) · · · · · · · · · · · · · · · · · ·	
SENSOR for PAL·····	
SENSOR for PAL (ANALOG PREPROCESS) · · · · · · · · · · · · · · · · · ·	SCM046
PROCESS for NTSC ·····	
PROCESS for NTSC (LENS DRIVE) · · · · · · · · · · · · · · · · · · ·	
PROCESS for PAL · · · · · · · · · · · · · · · · · · ·	SCM049
THOOLOGICITY (ELITO BILITE)	SCM050
ATW SENSOR · · · · · · · · · · · · · · · · · · ·	
OPERATE	SCM052
CRT MASK·····	
DVCPRO TERMINAL·····	SCM054
TOGGLE SW etc.	SCM055
R SIDE·····	SCM056
HDEF	SCM057
V DEF·····	SCM058
CN	
FRONT ·····	
1394 & PRESHUFFLE	SCM061

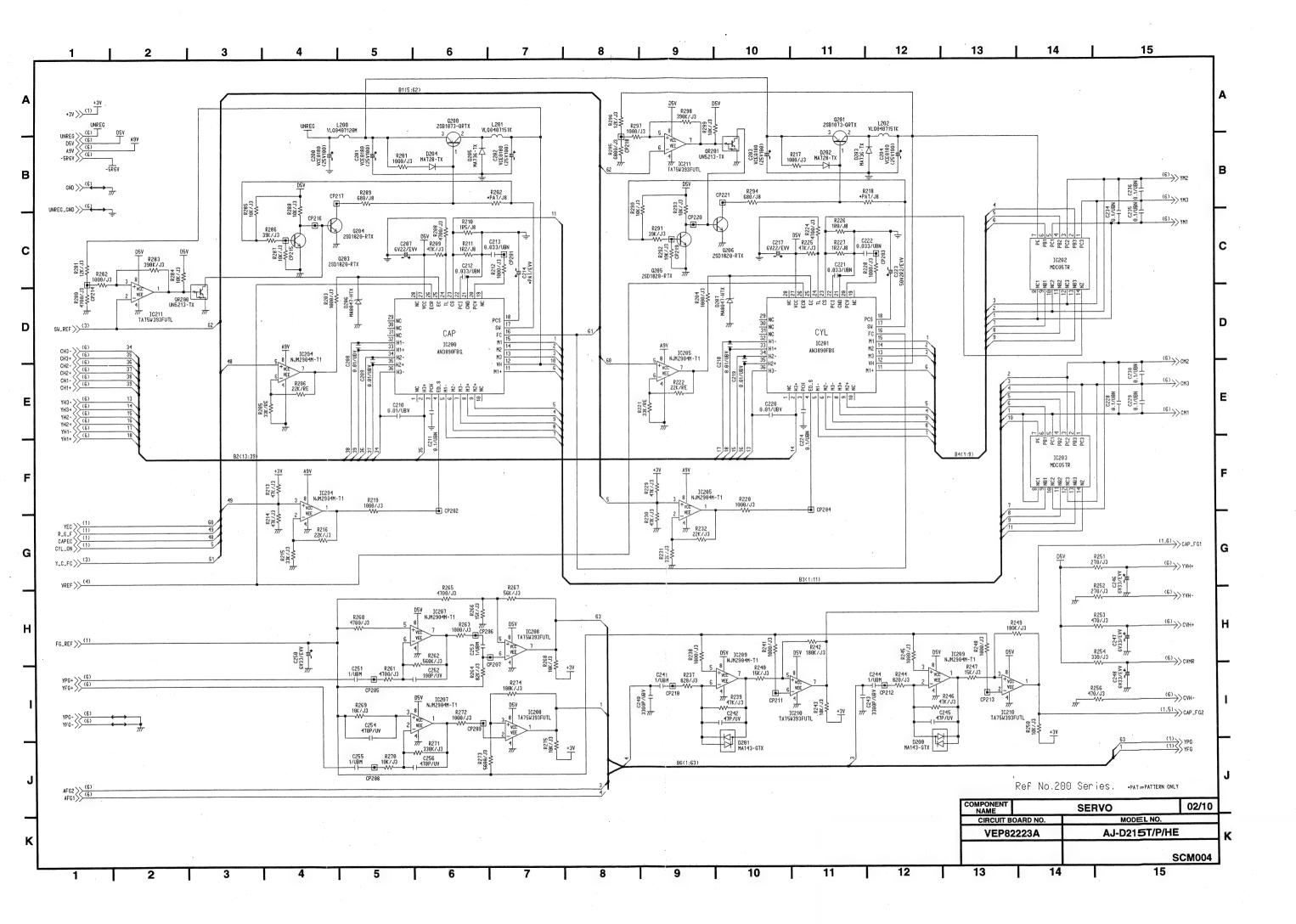


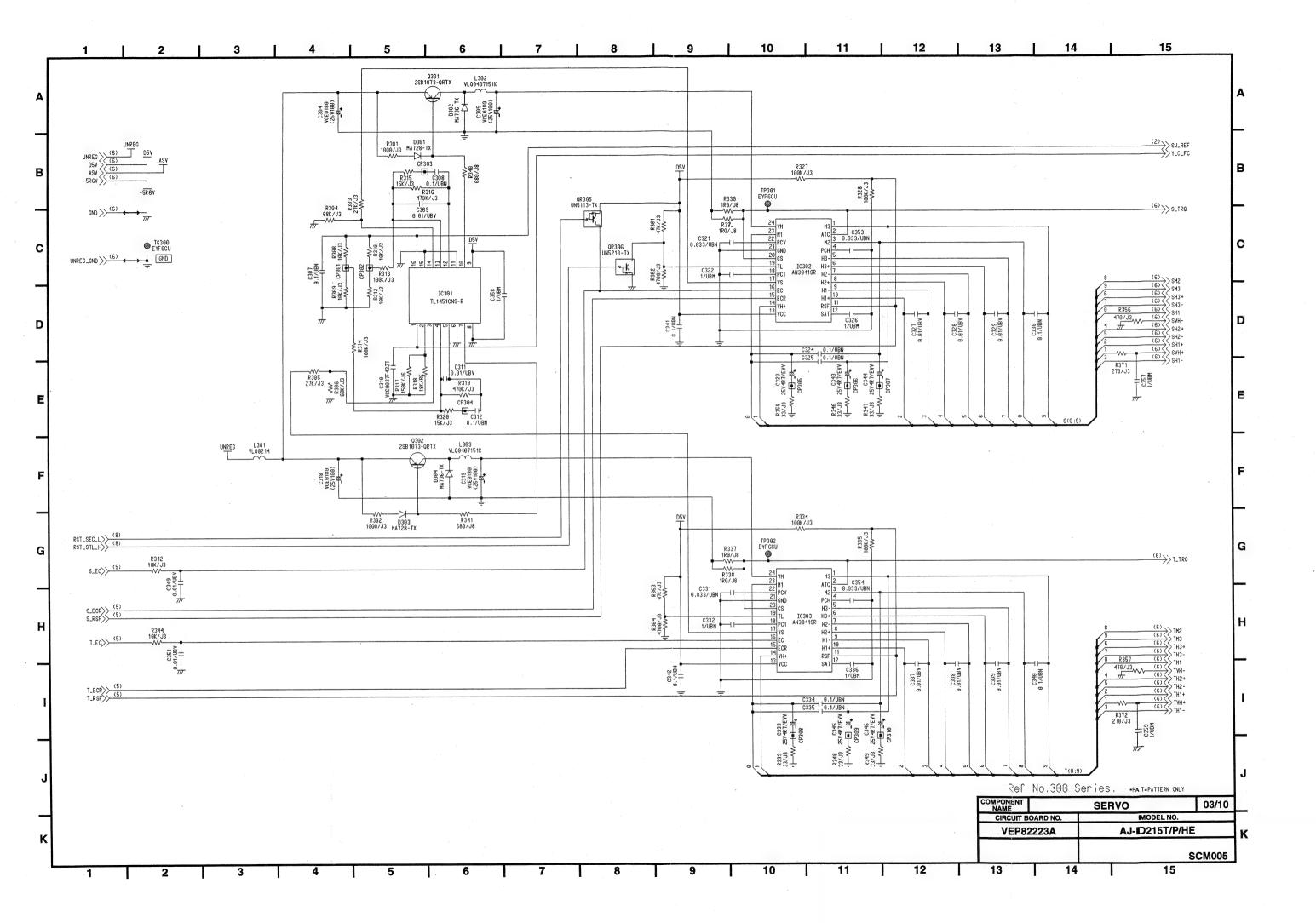


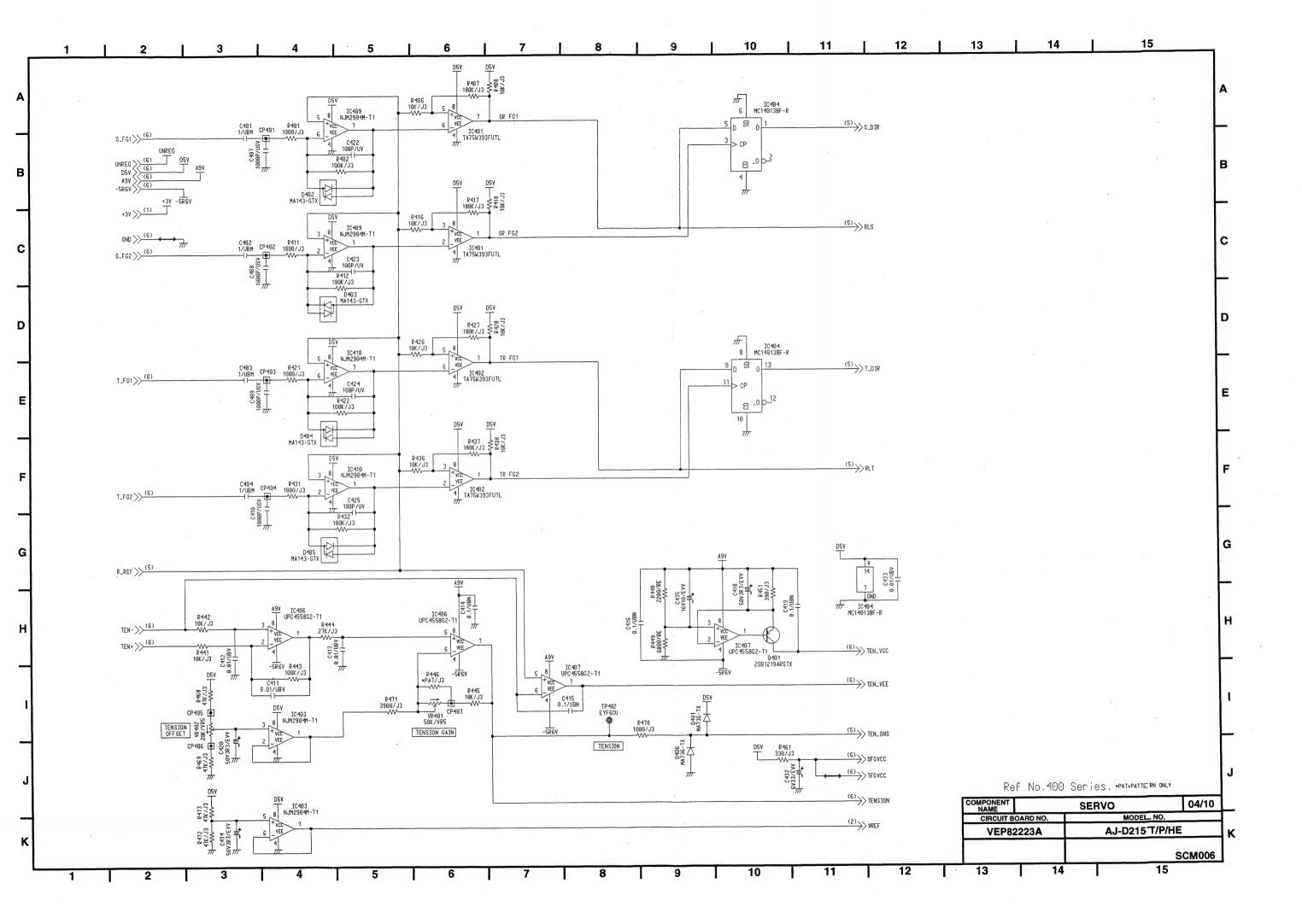


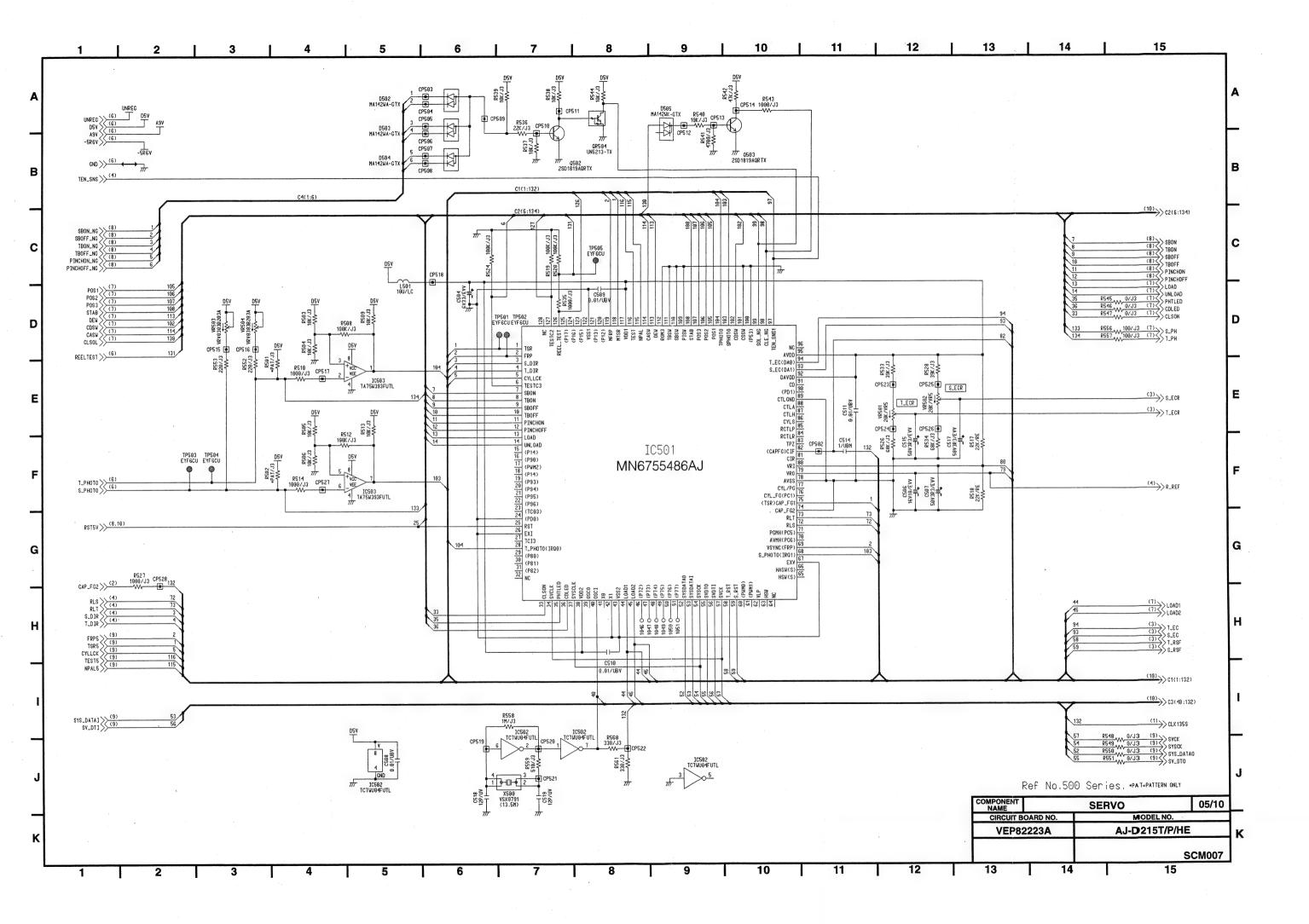


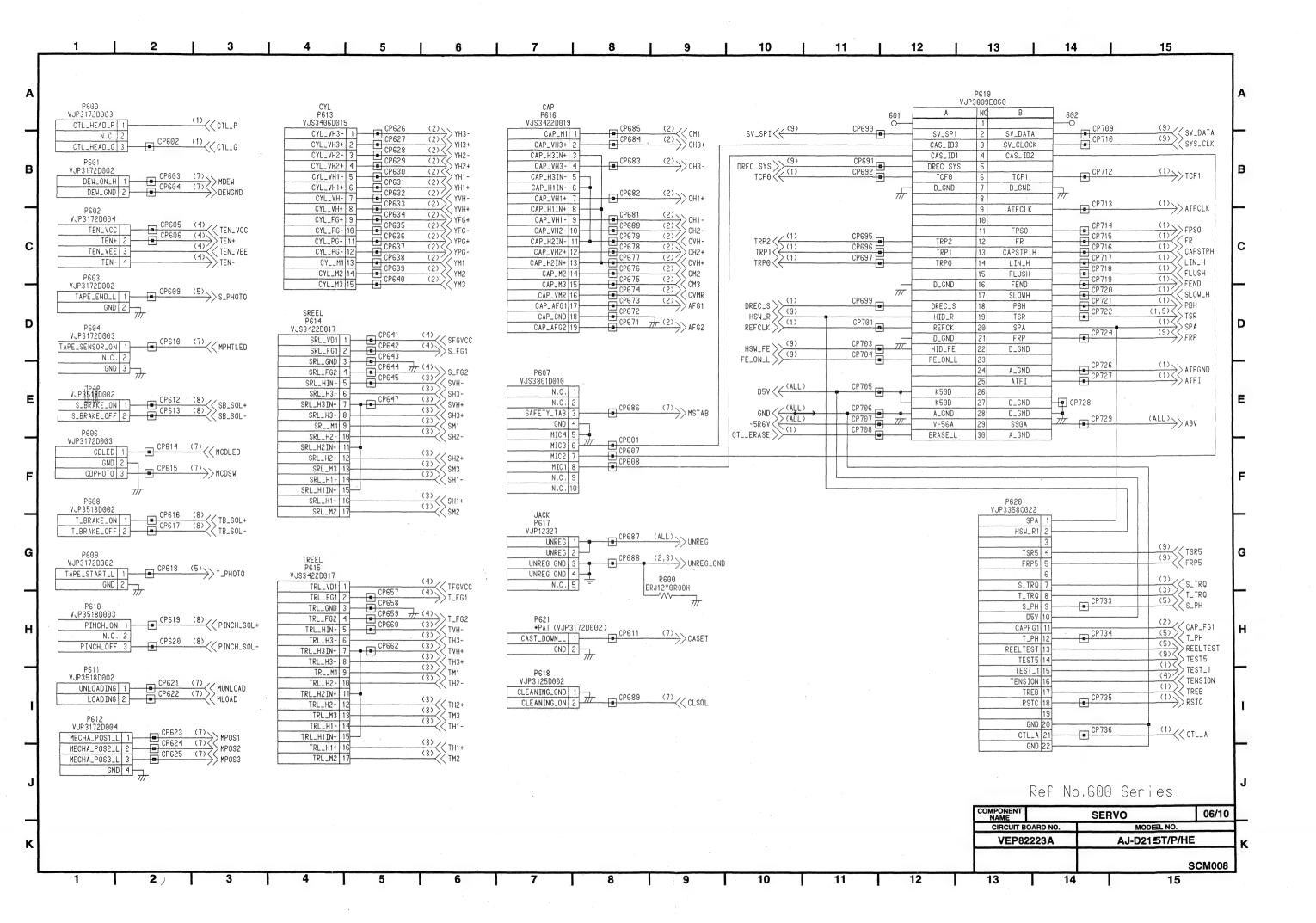


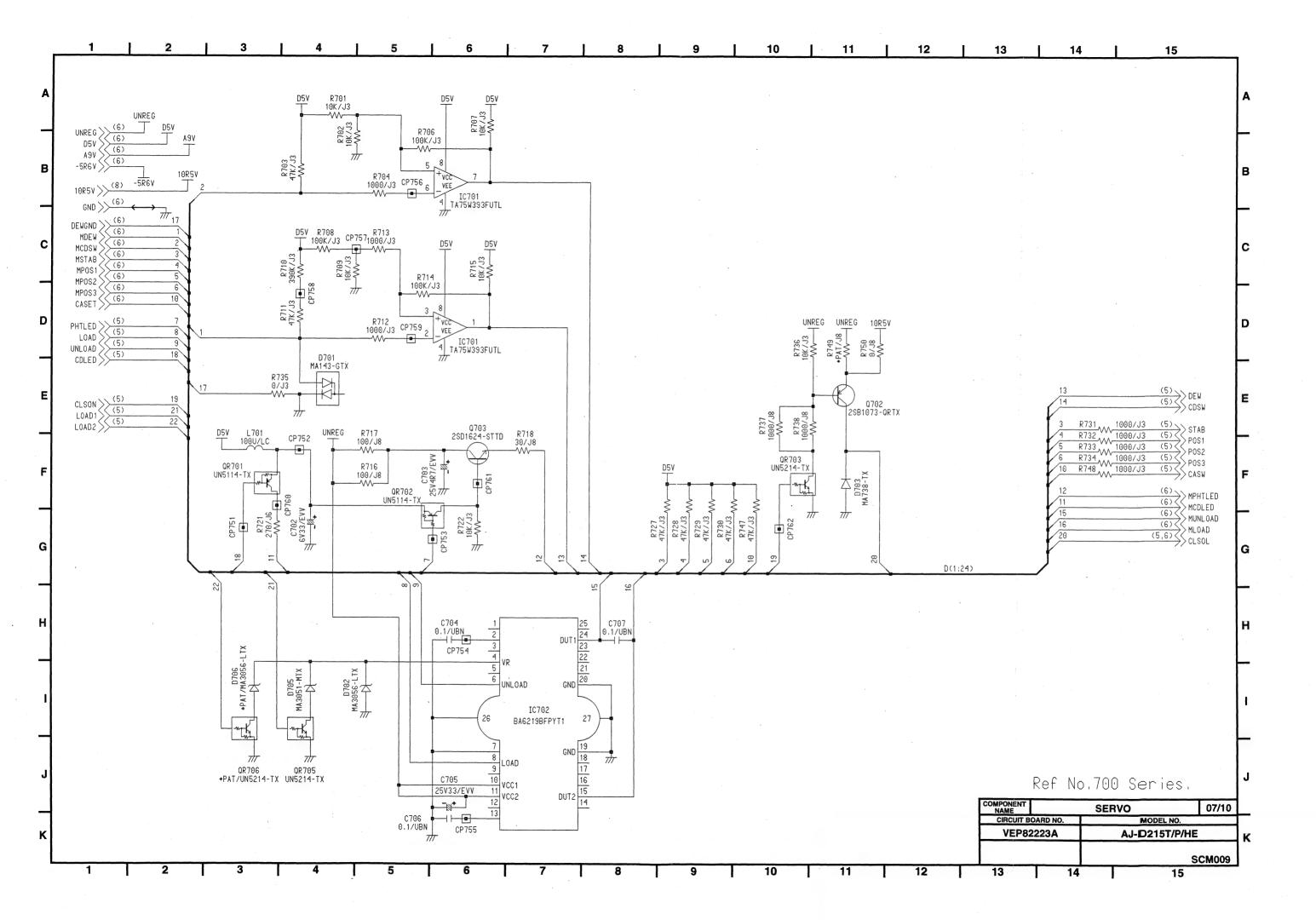


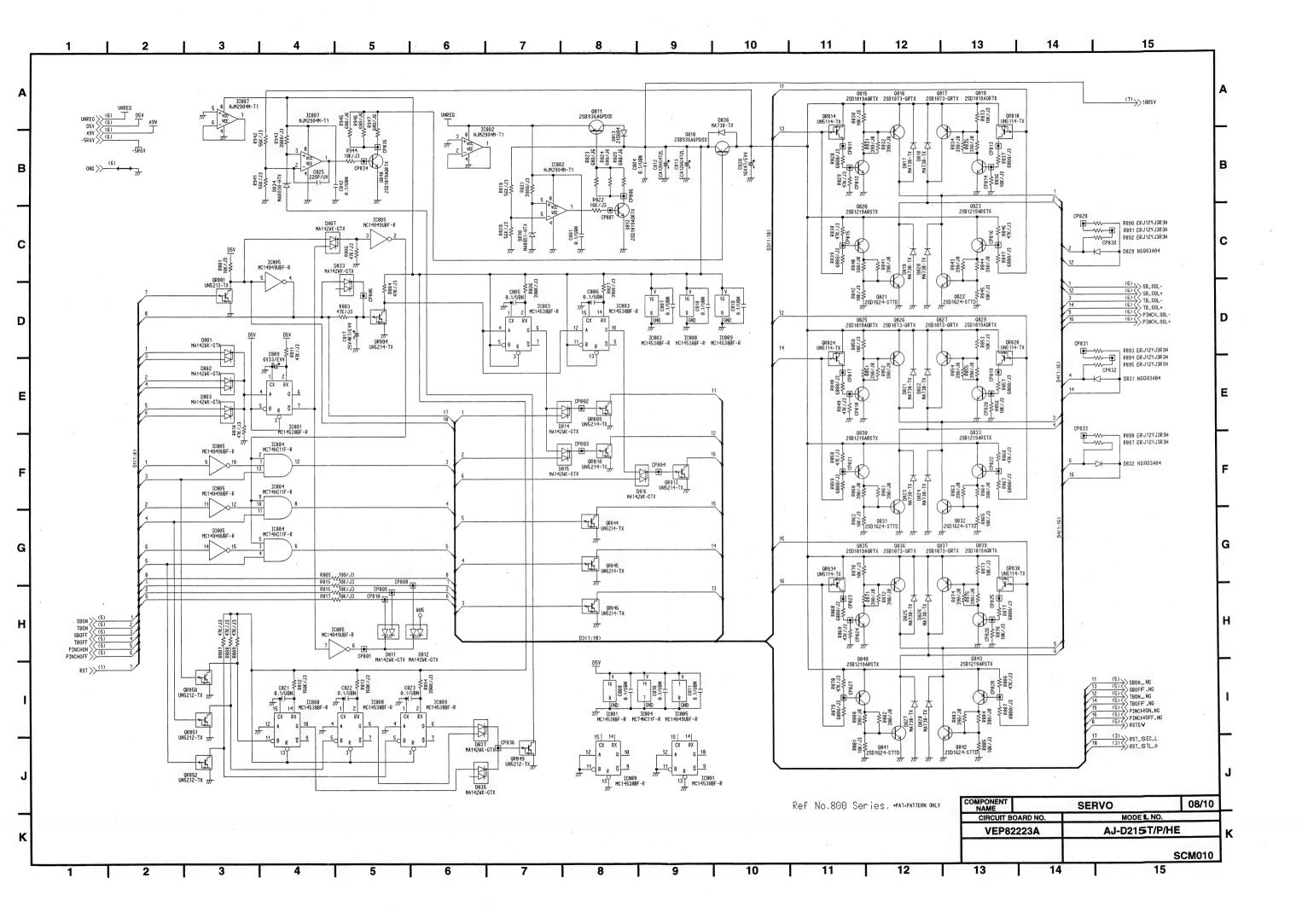


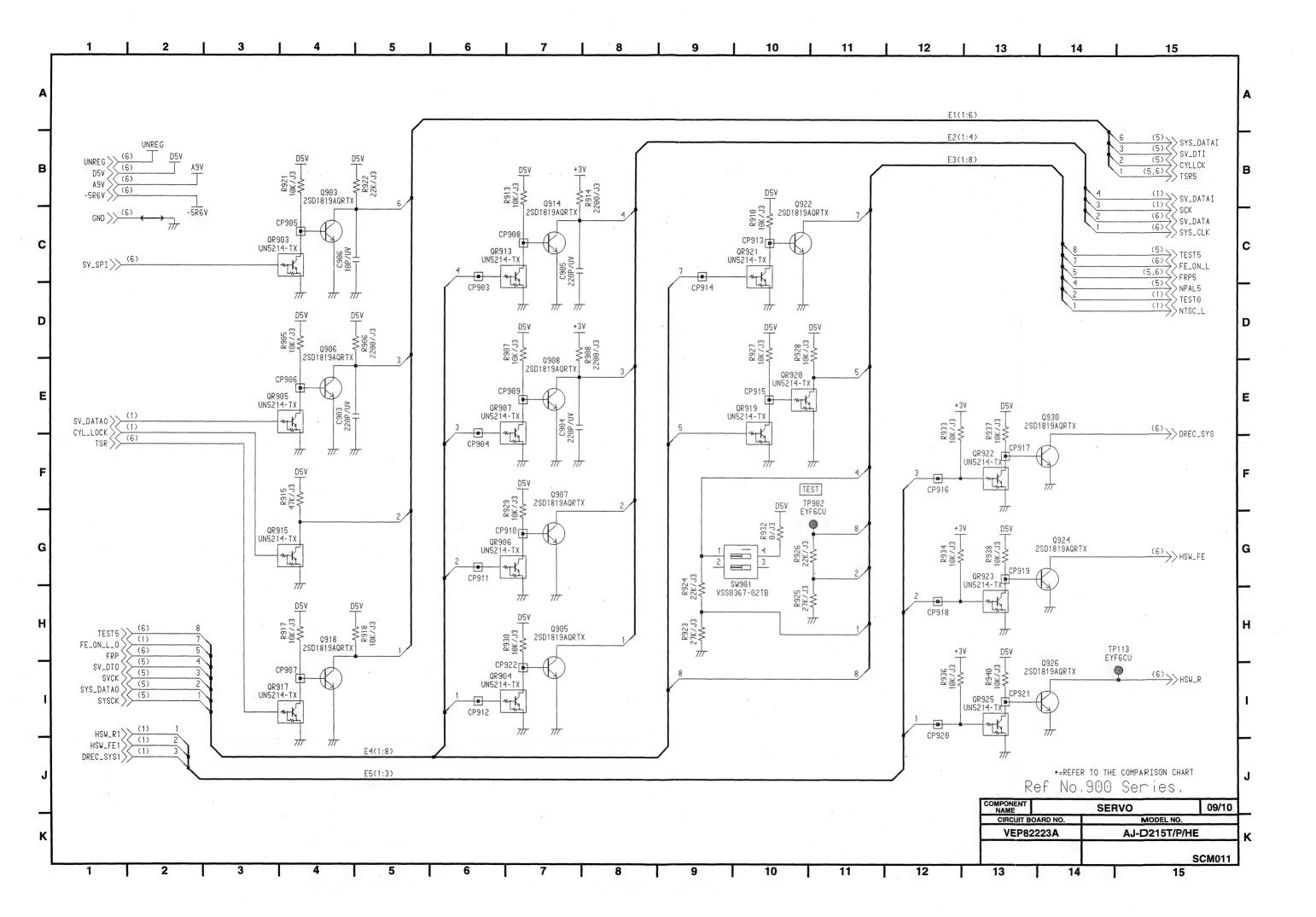


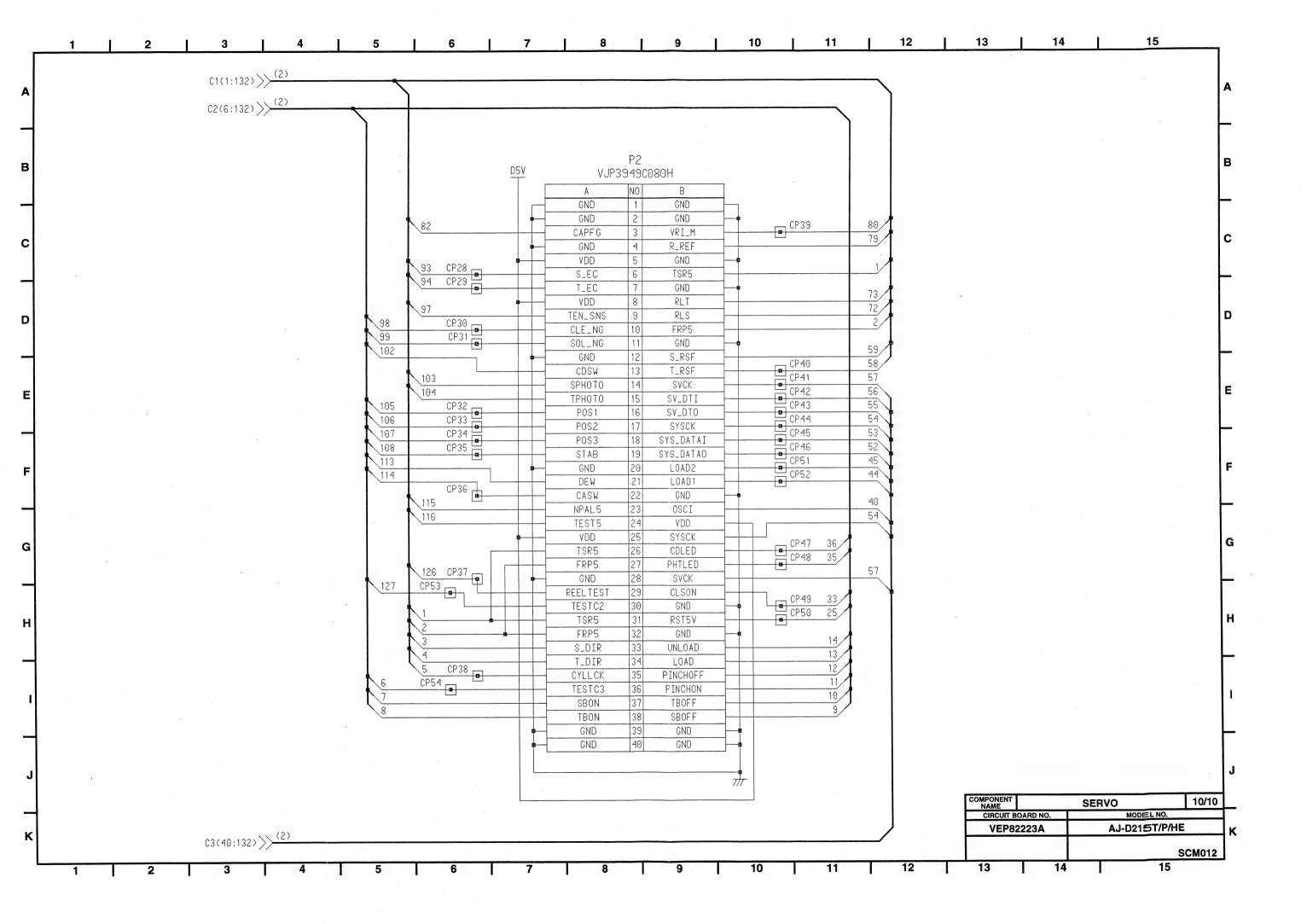


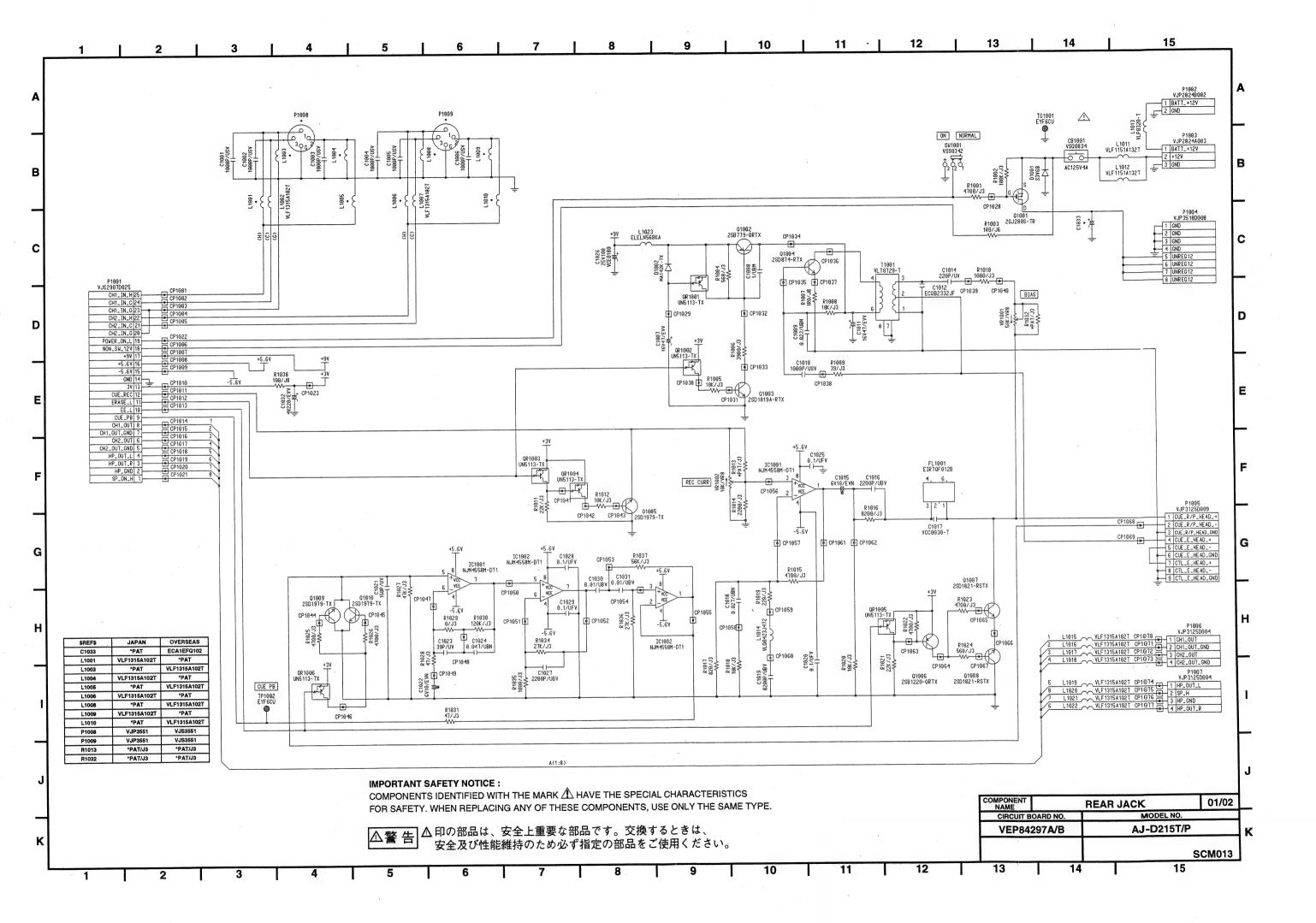


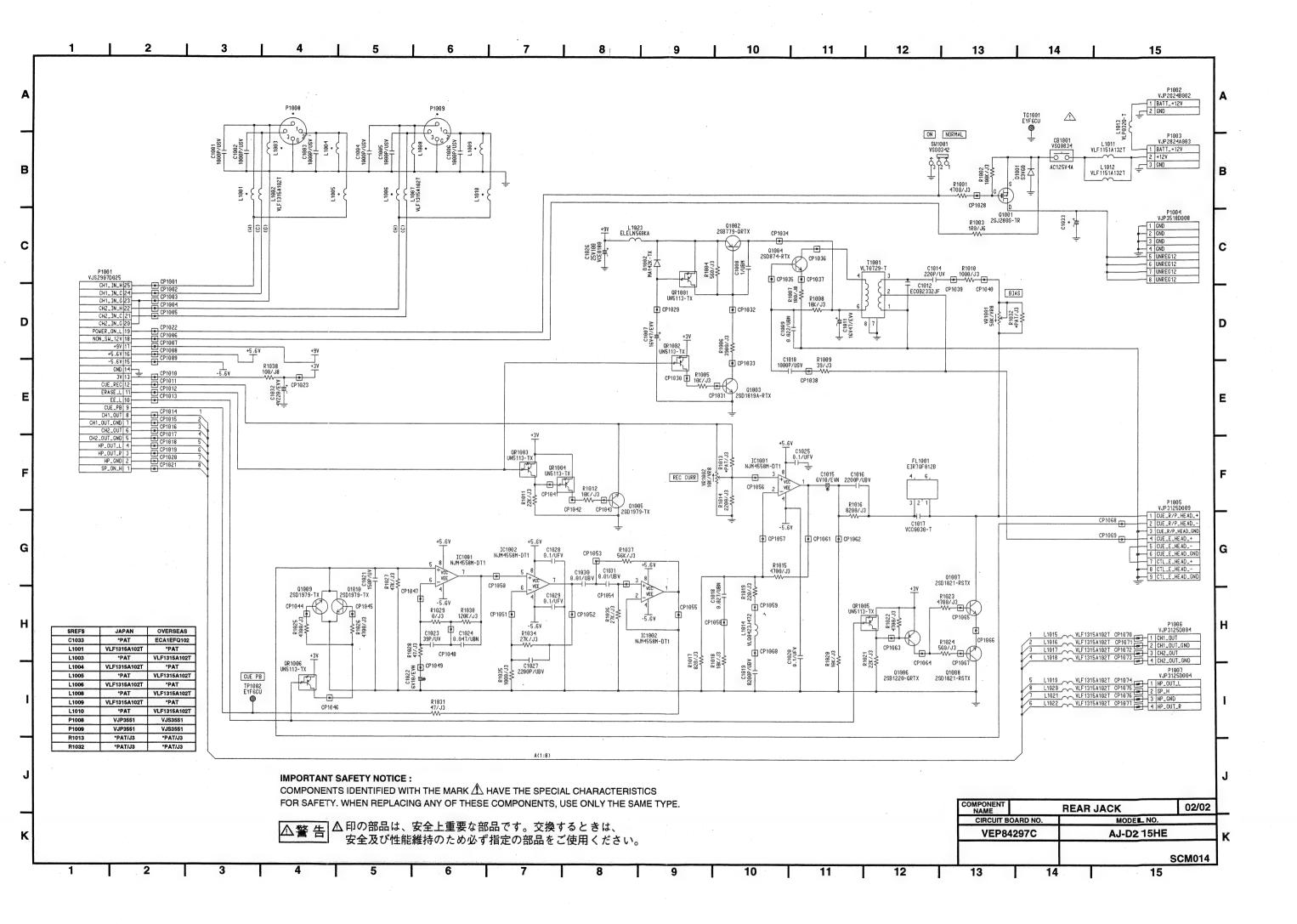


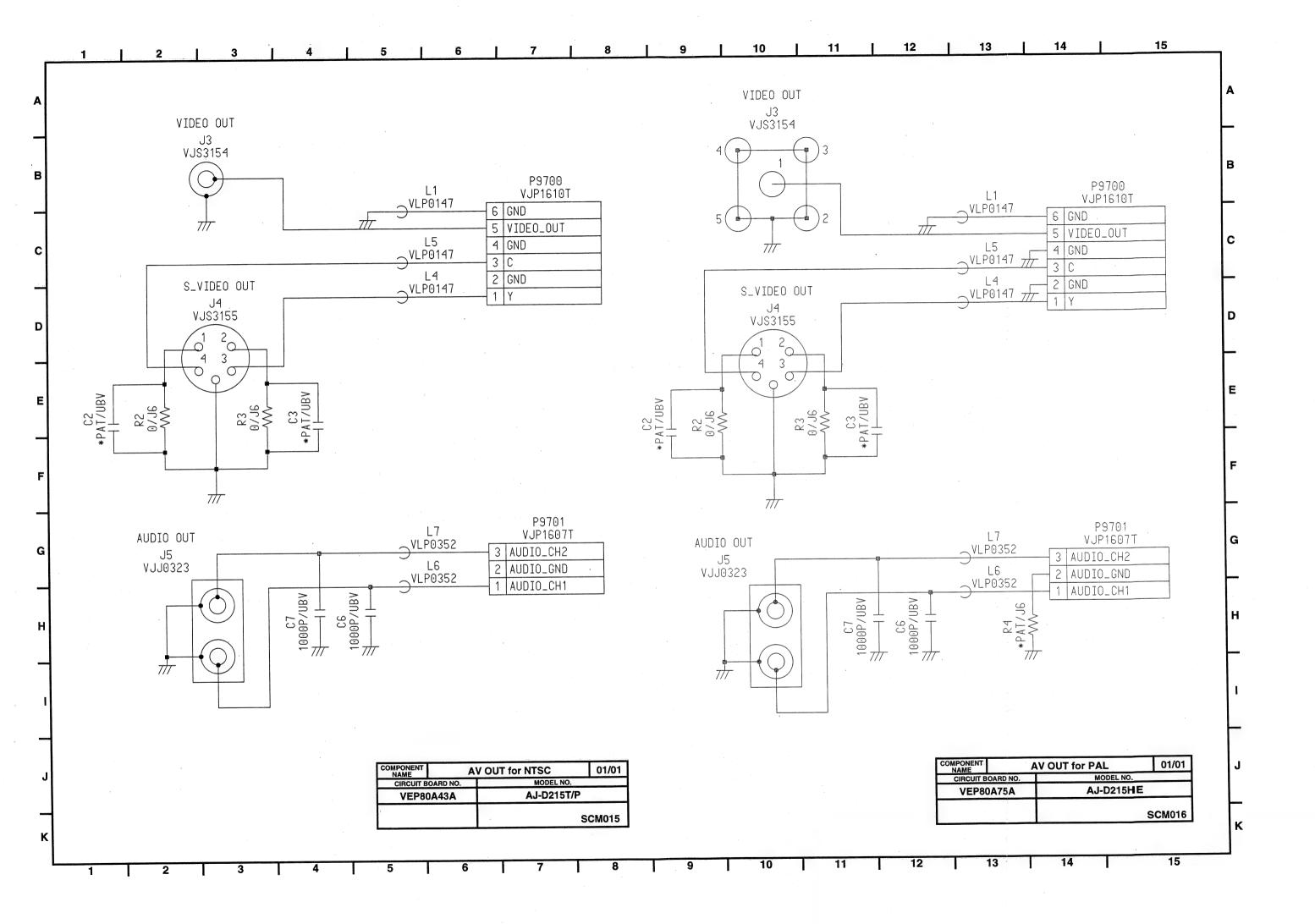


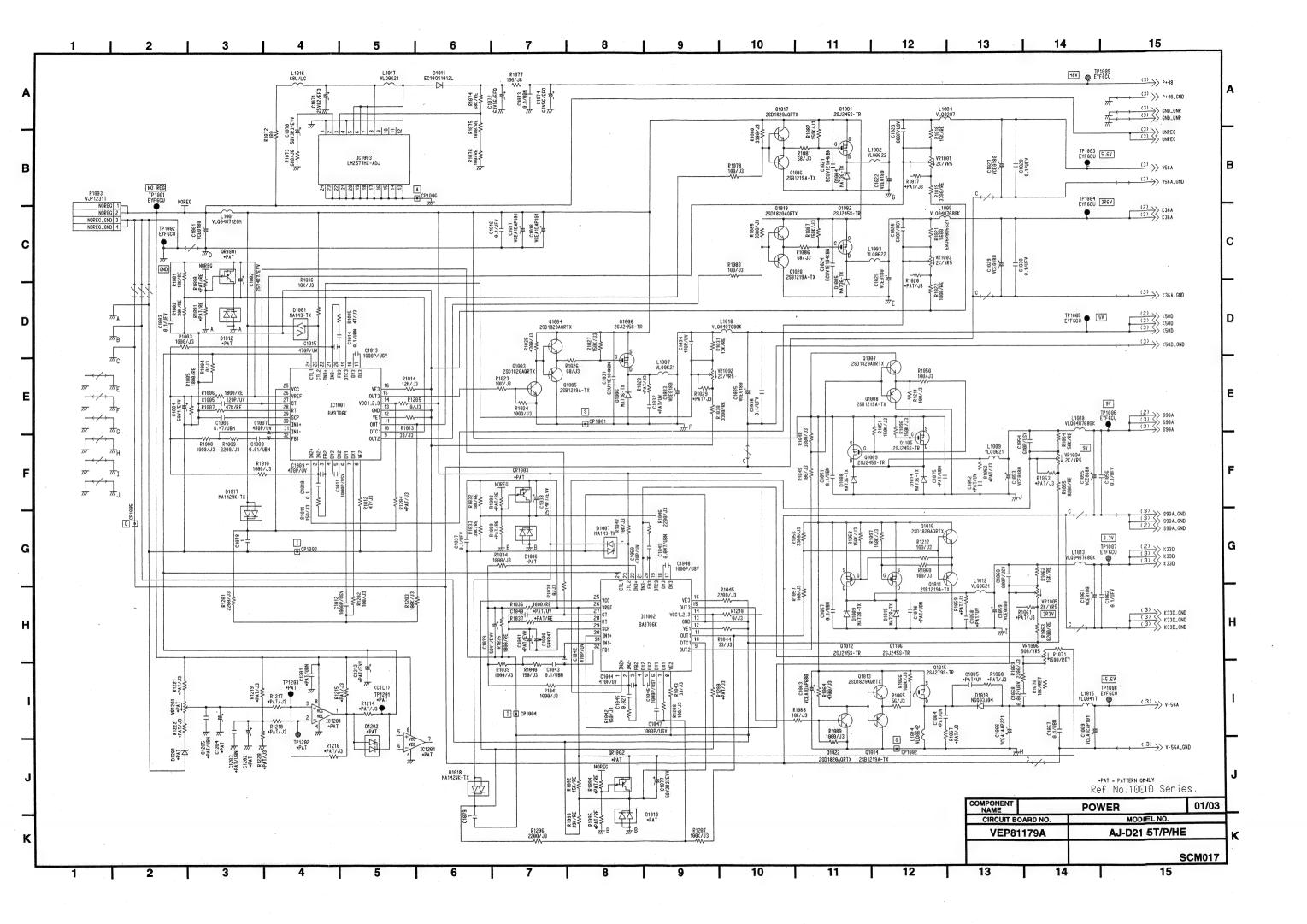


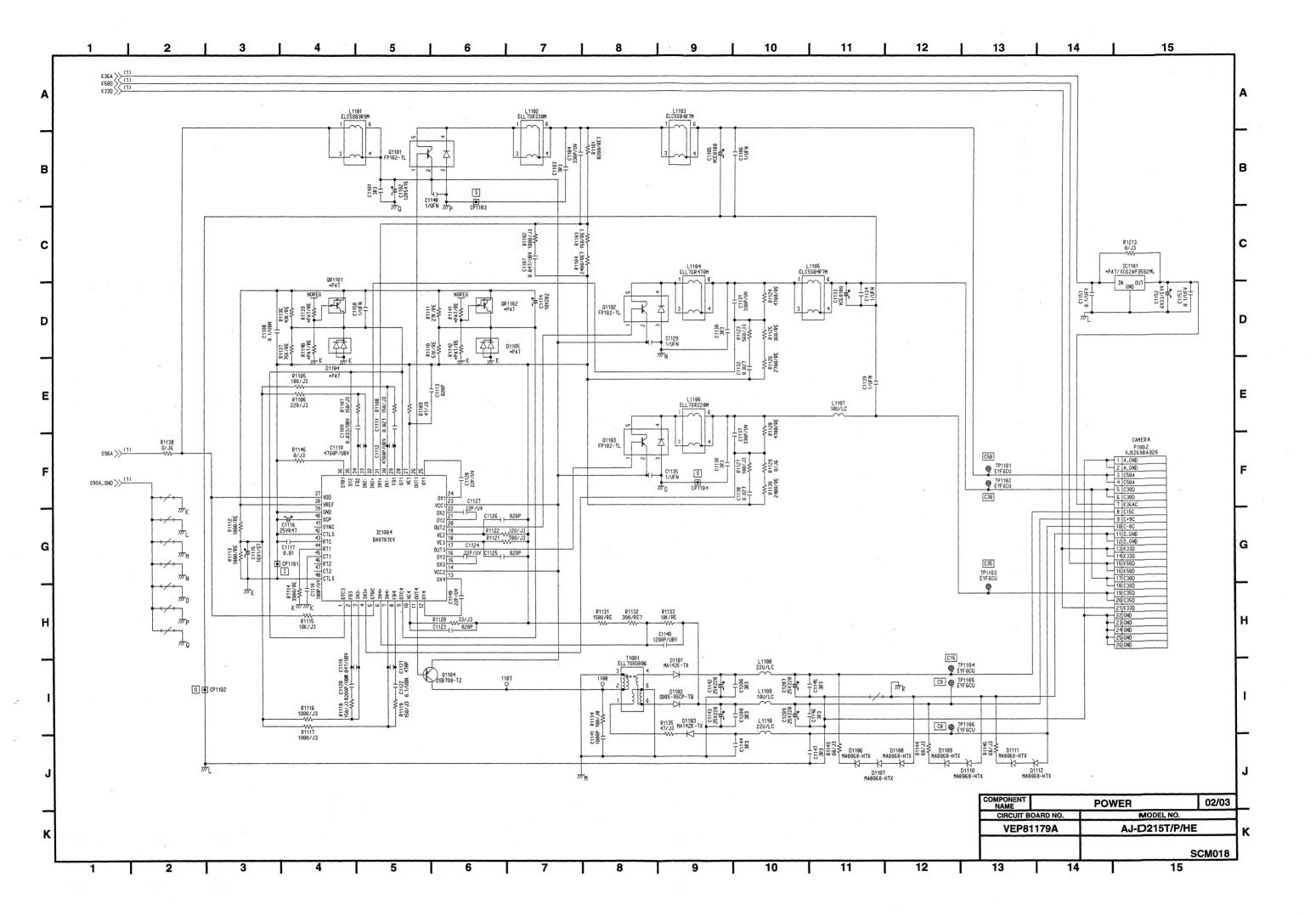


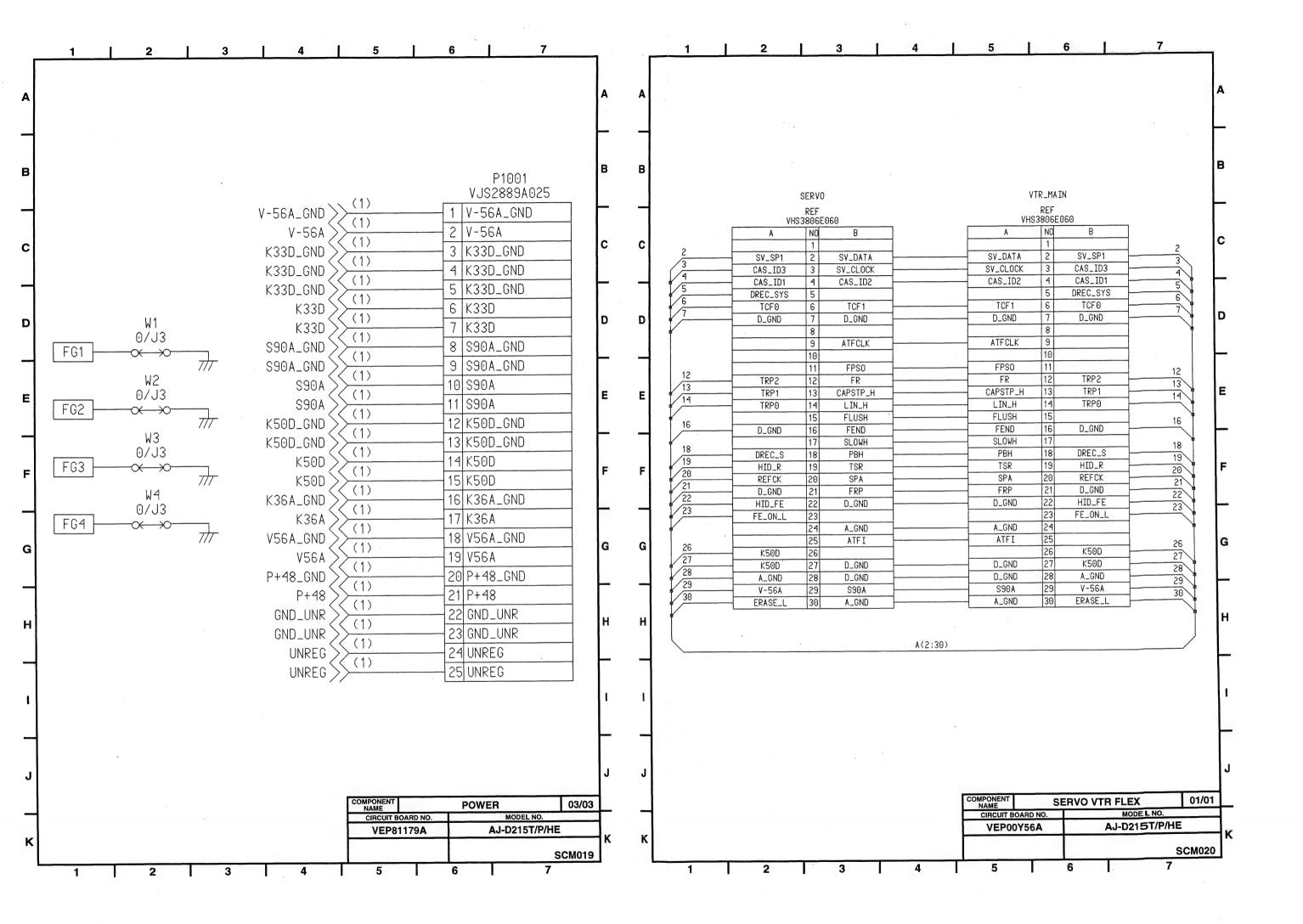


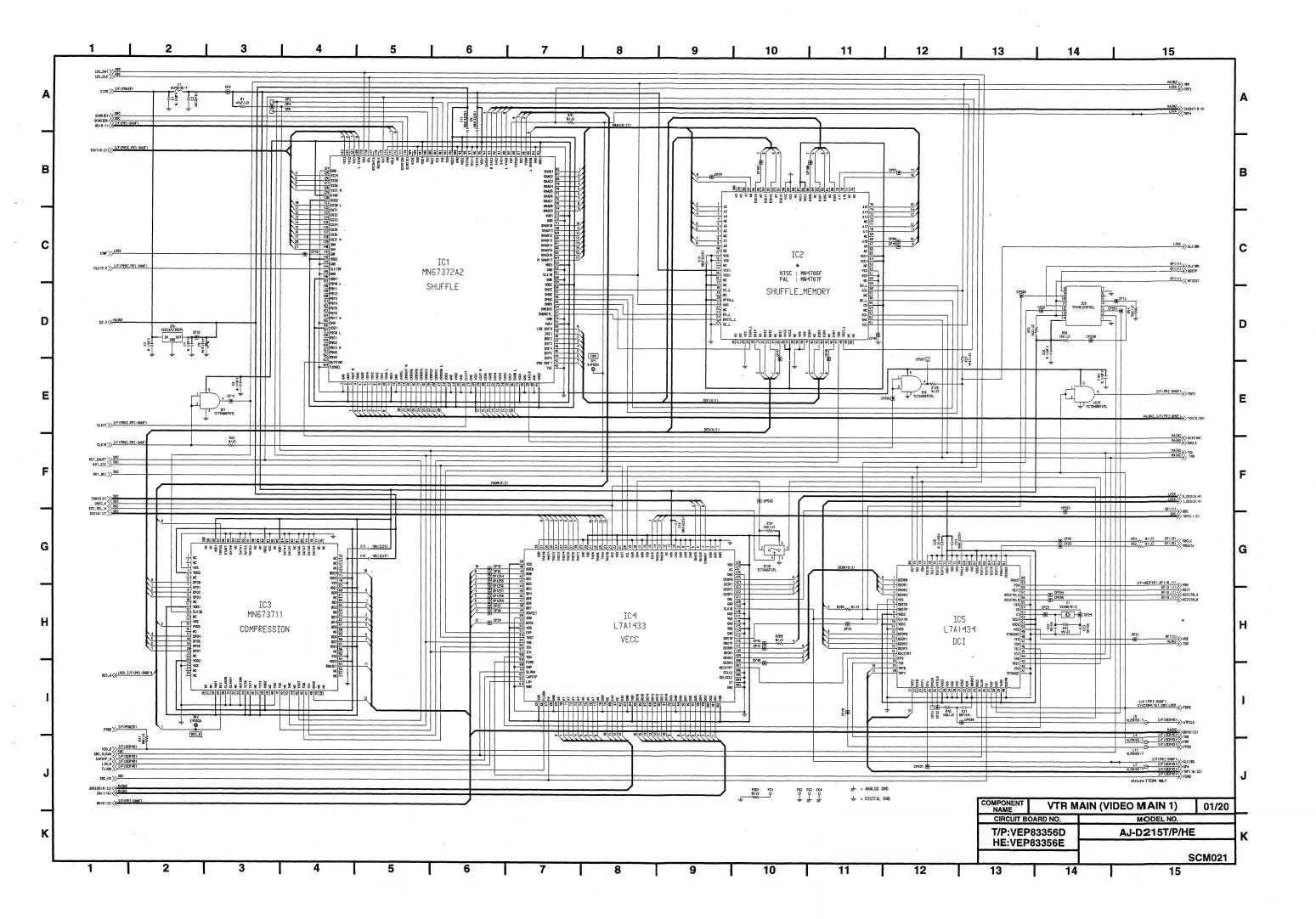


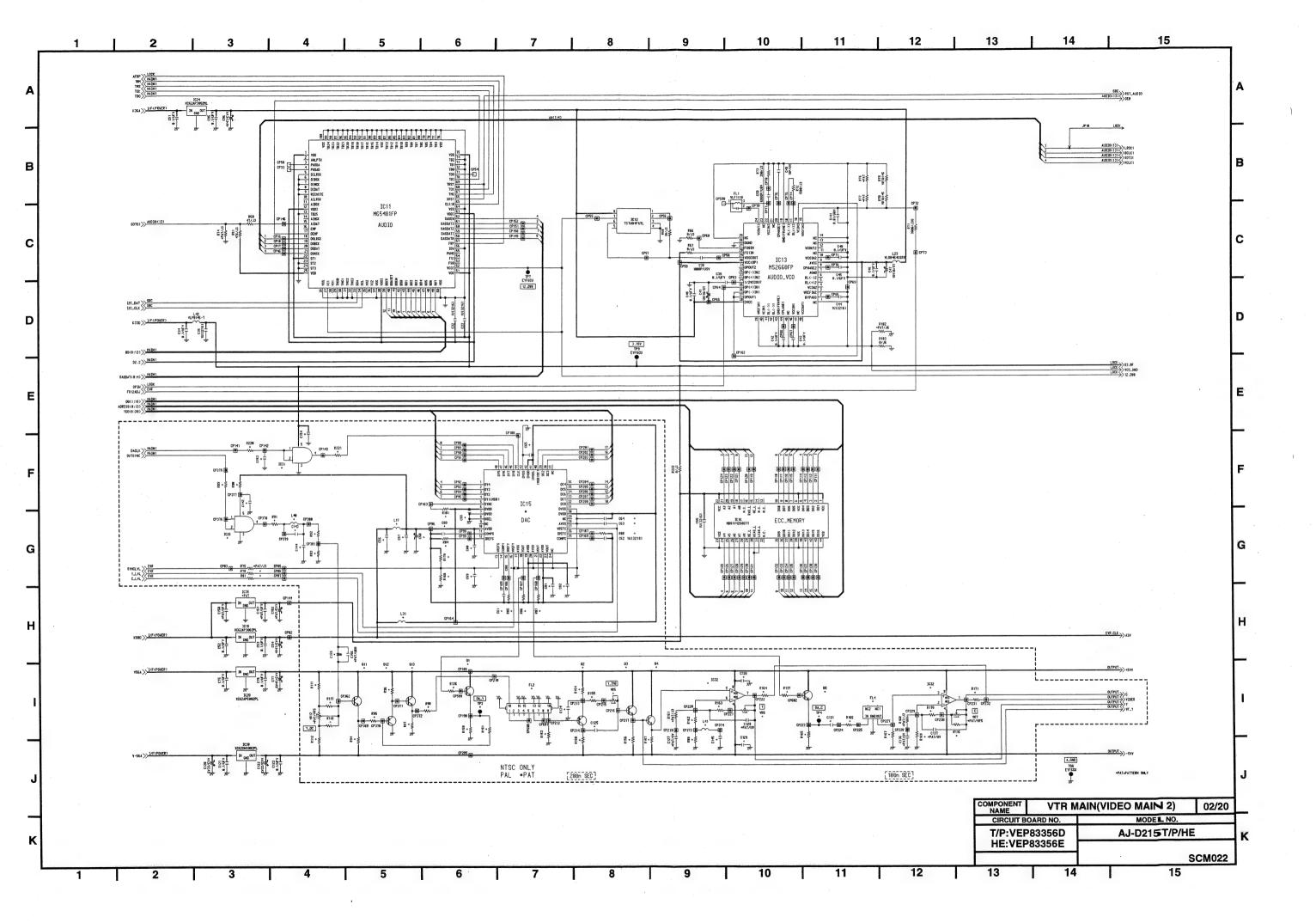


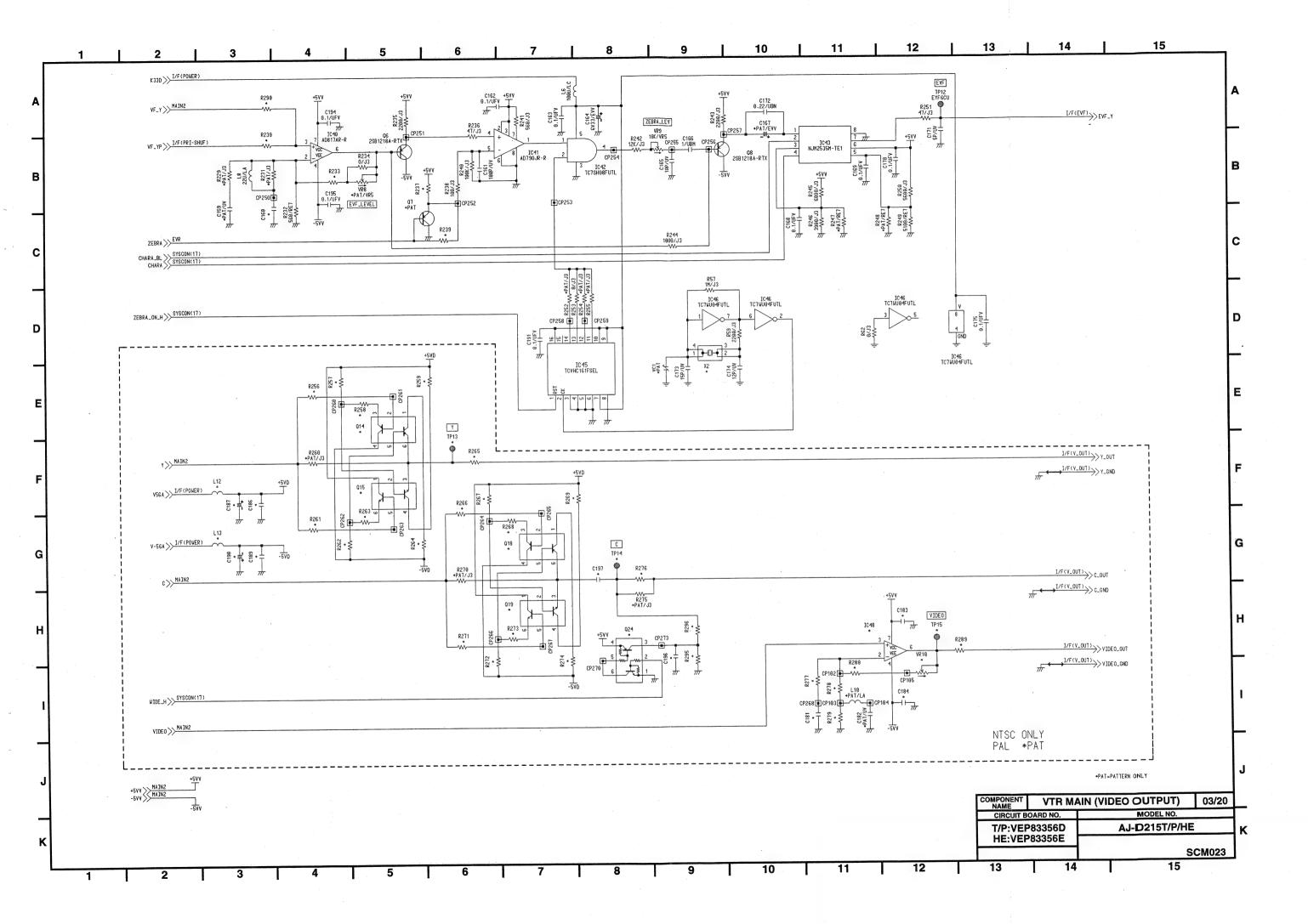


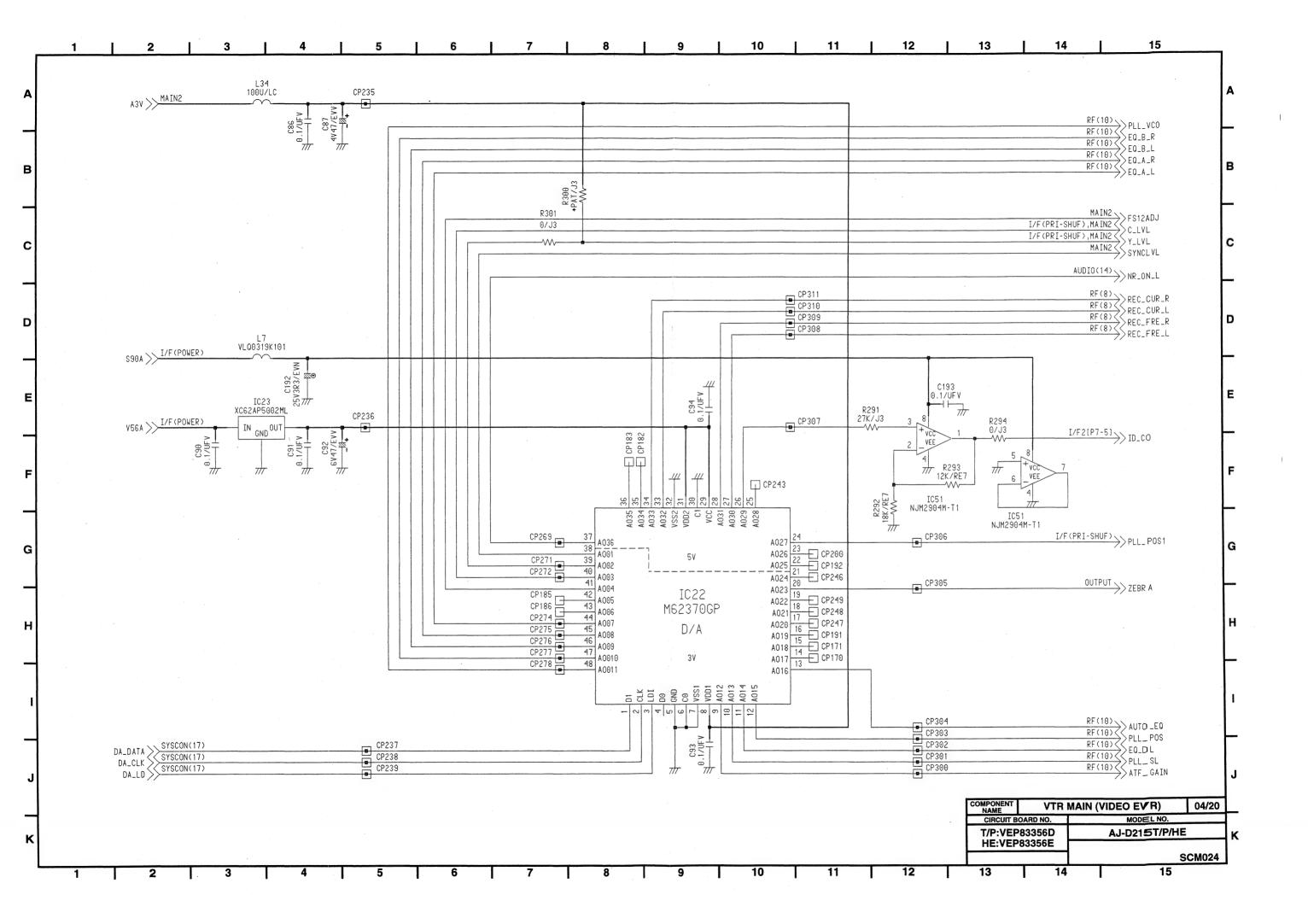


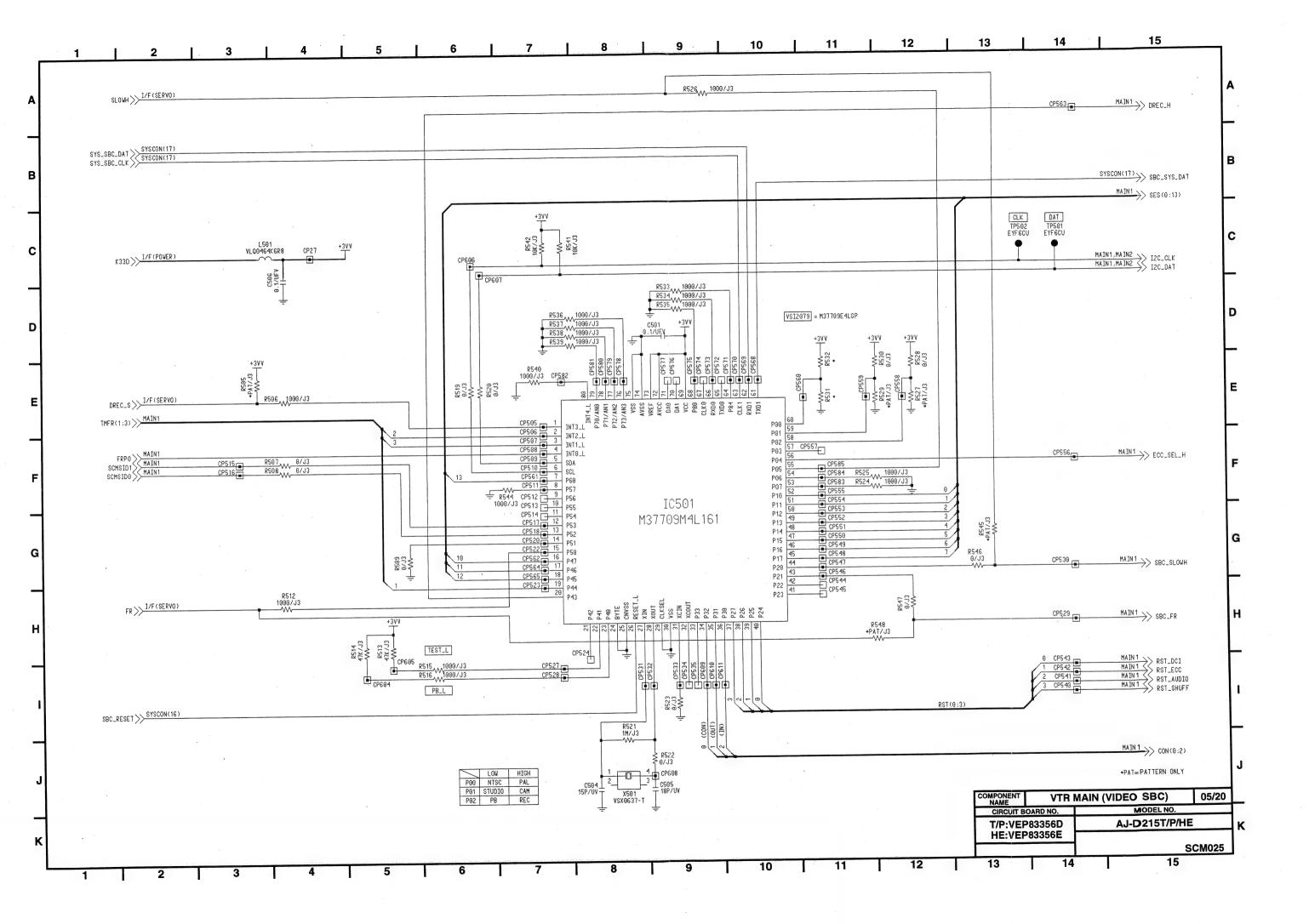


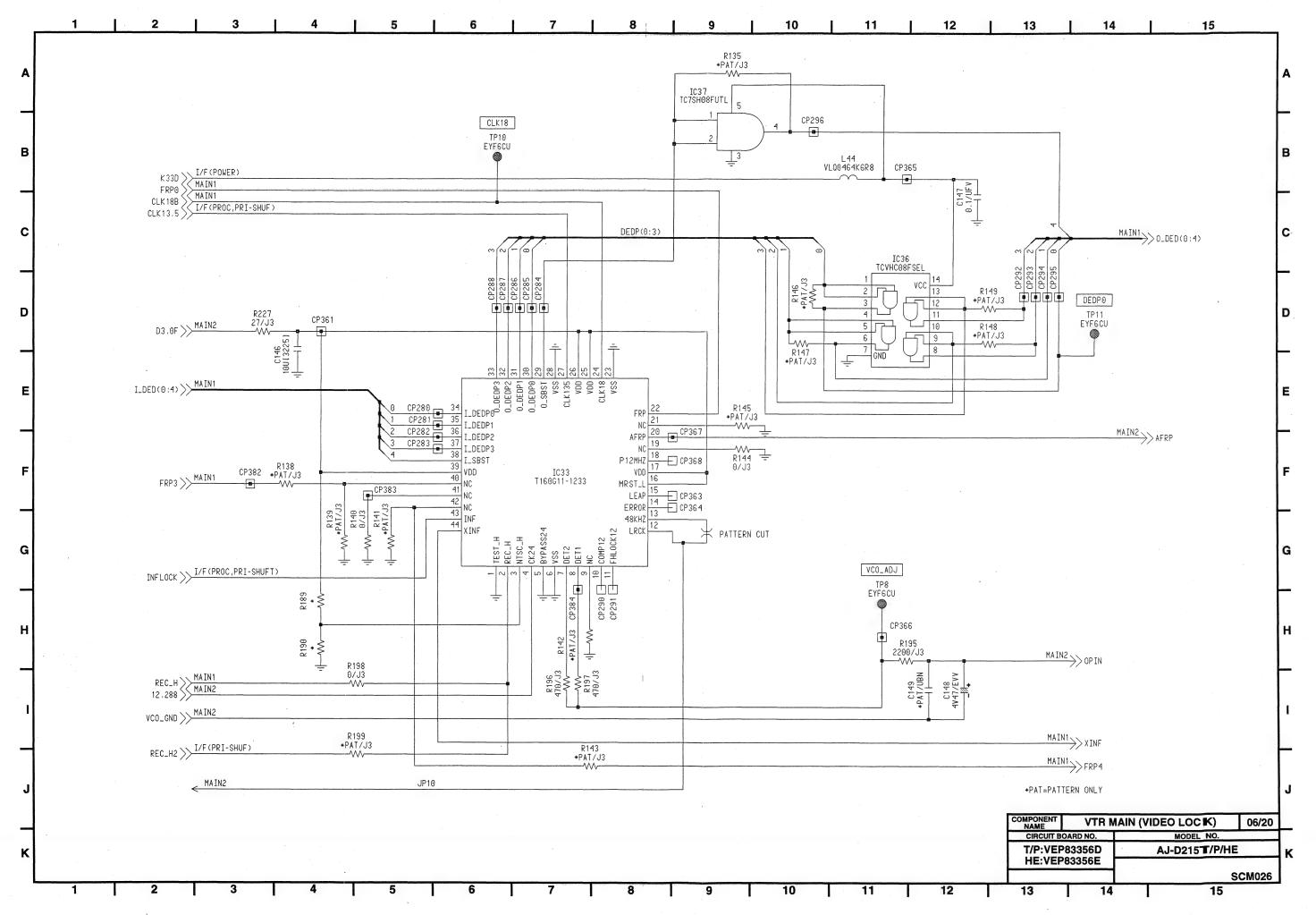




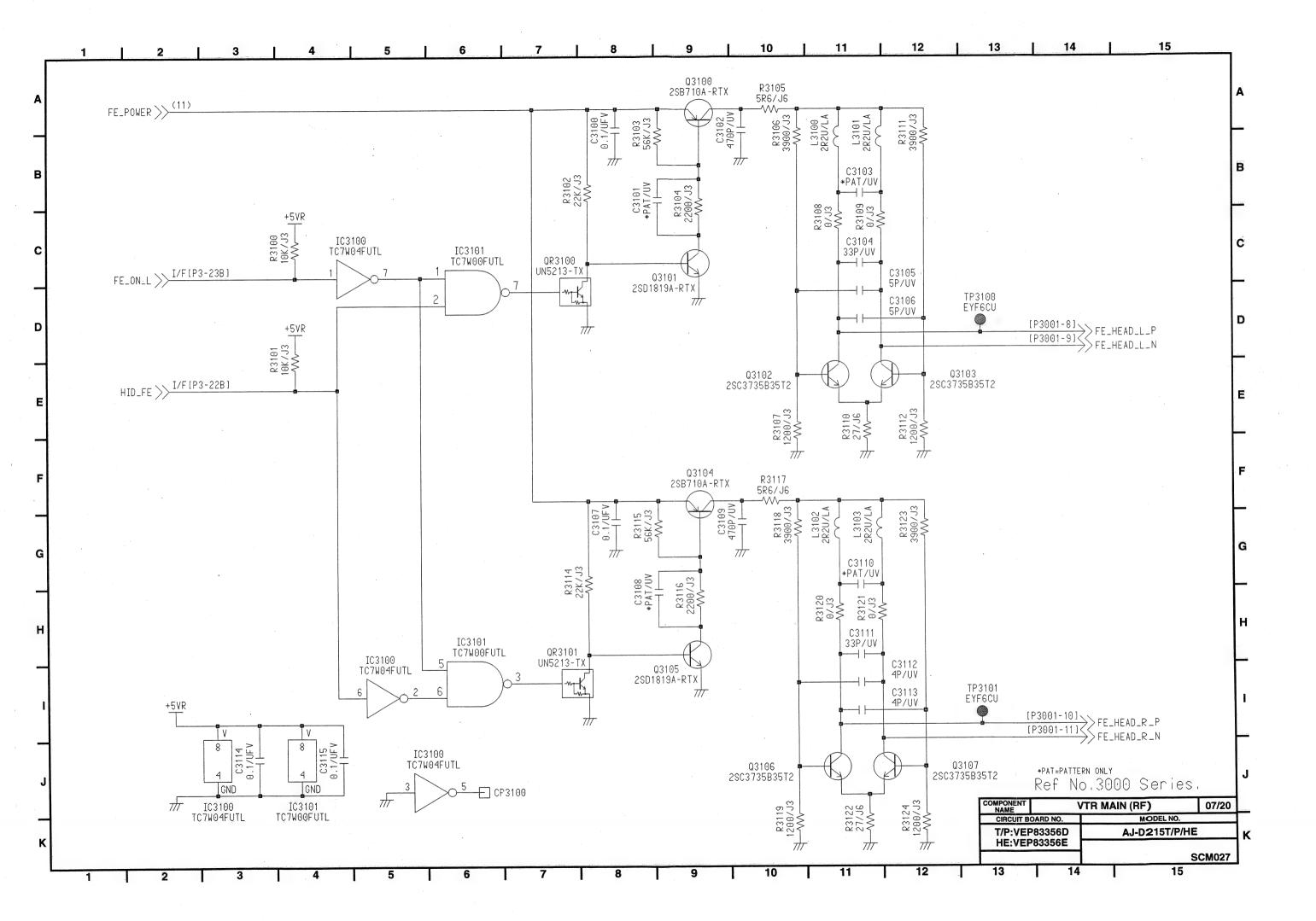


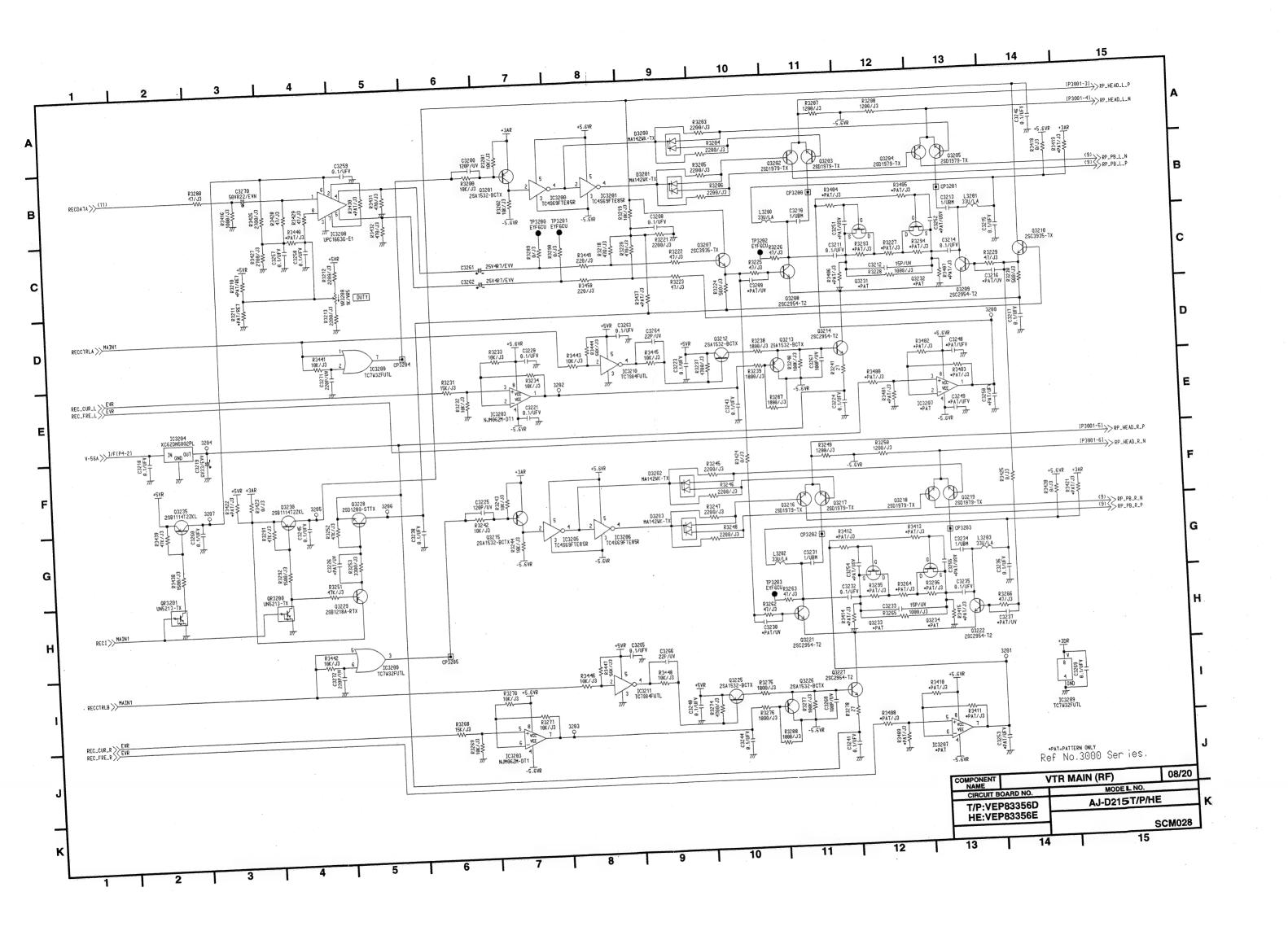


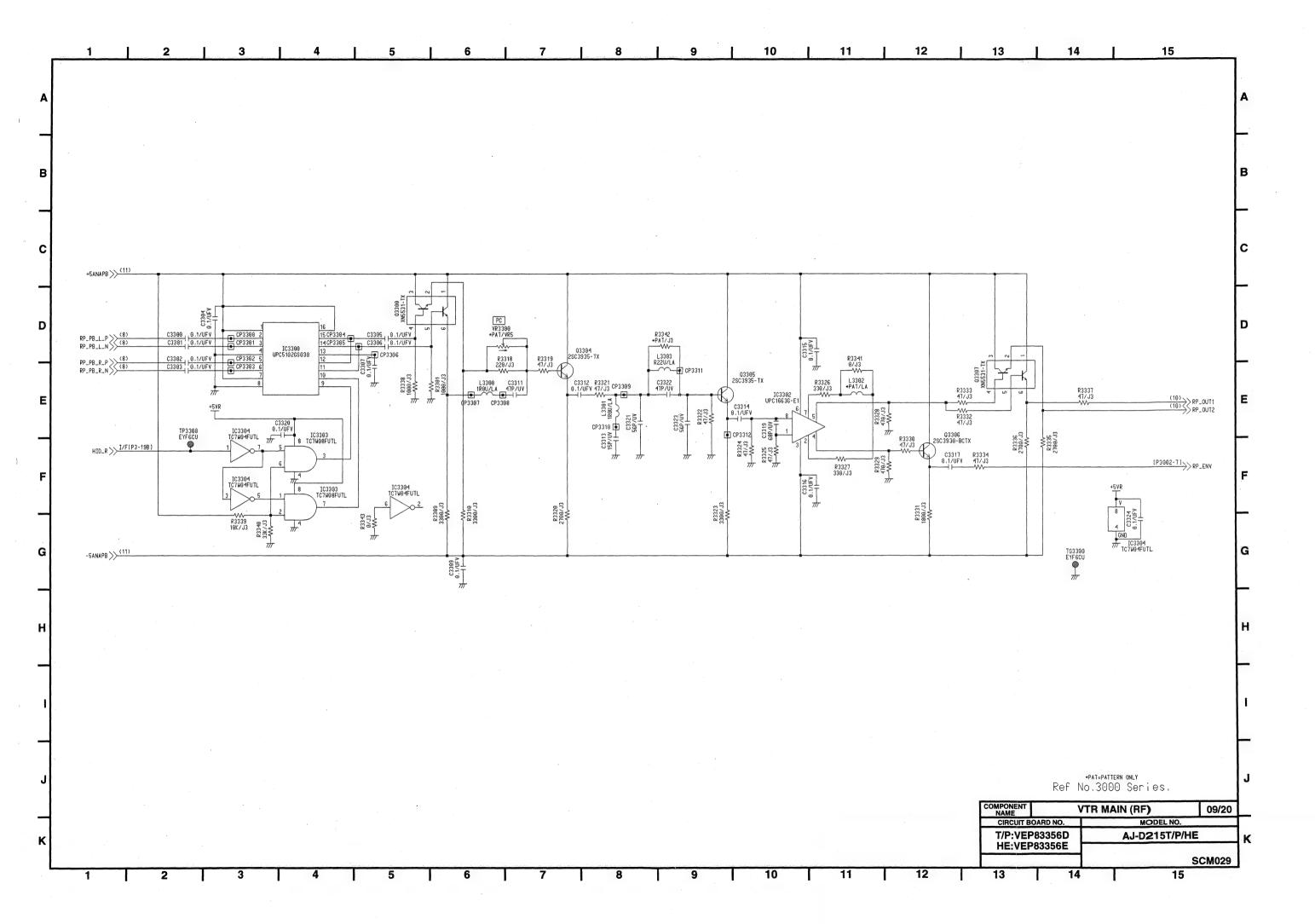


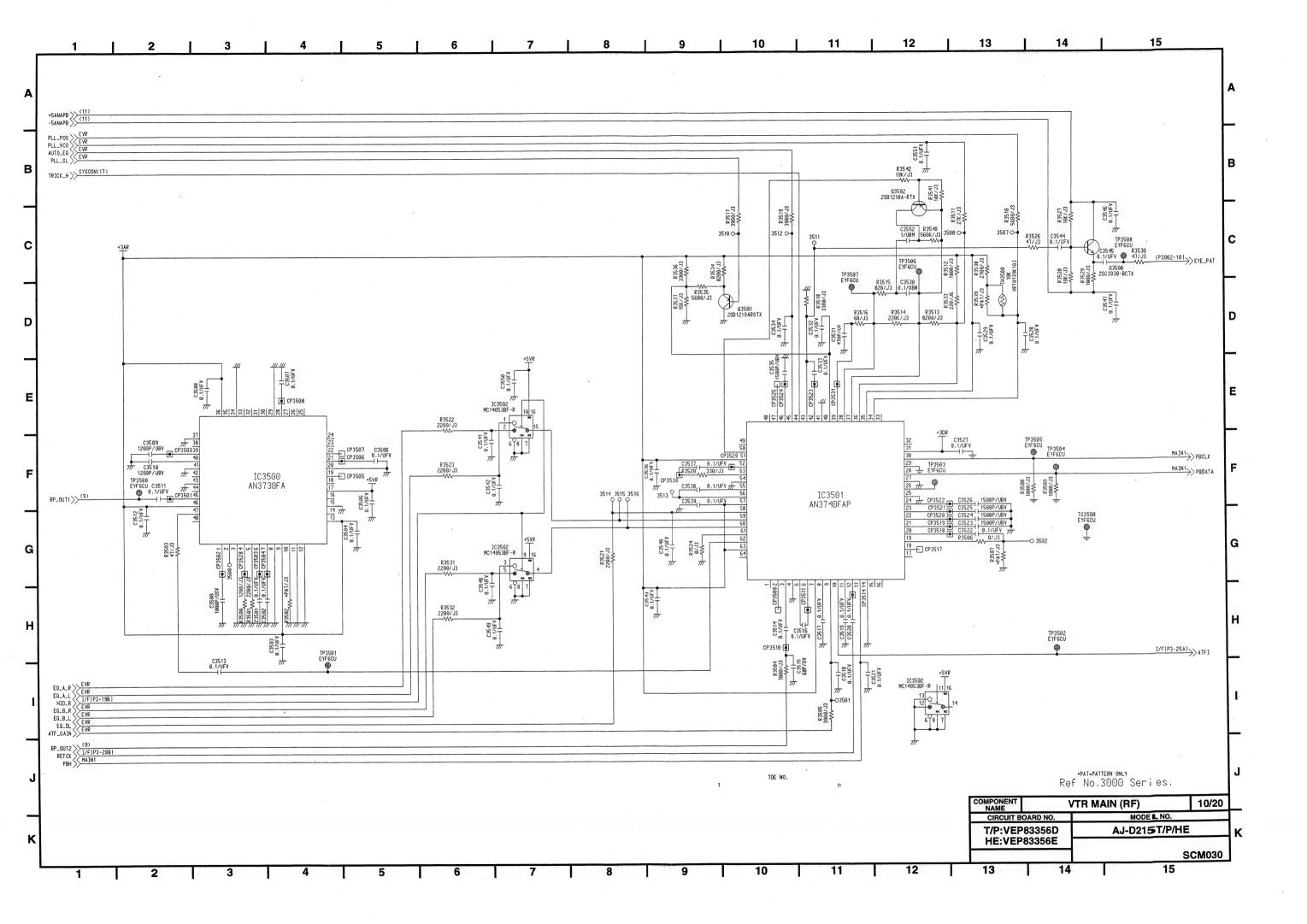


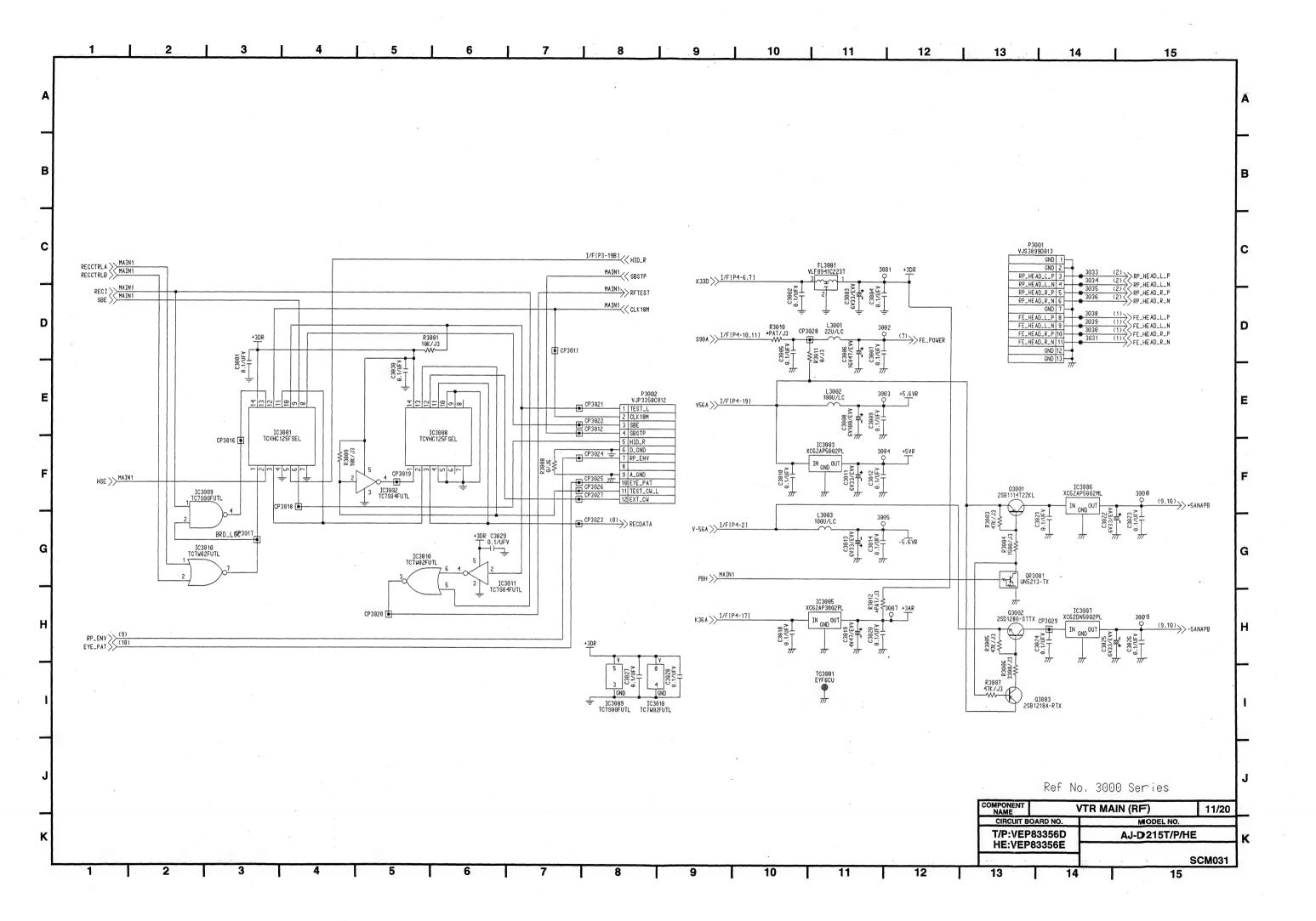
-- No off tendents a s

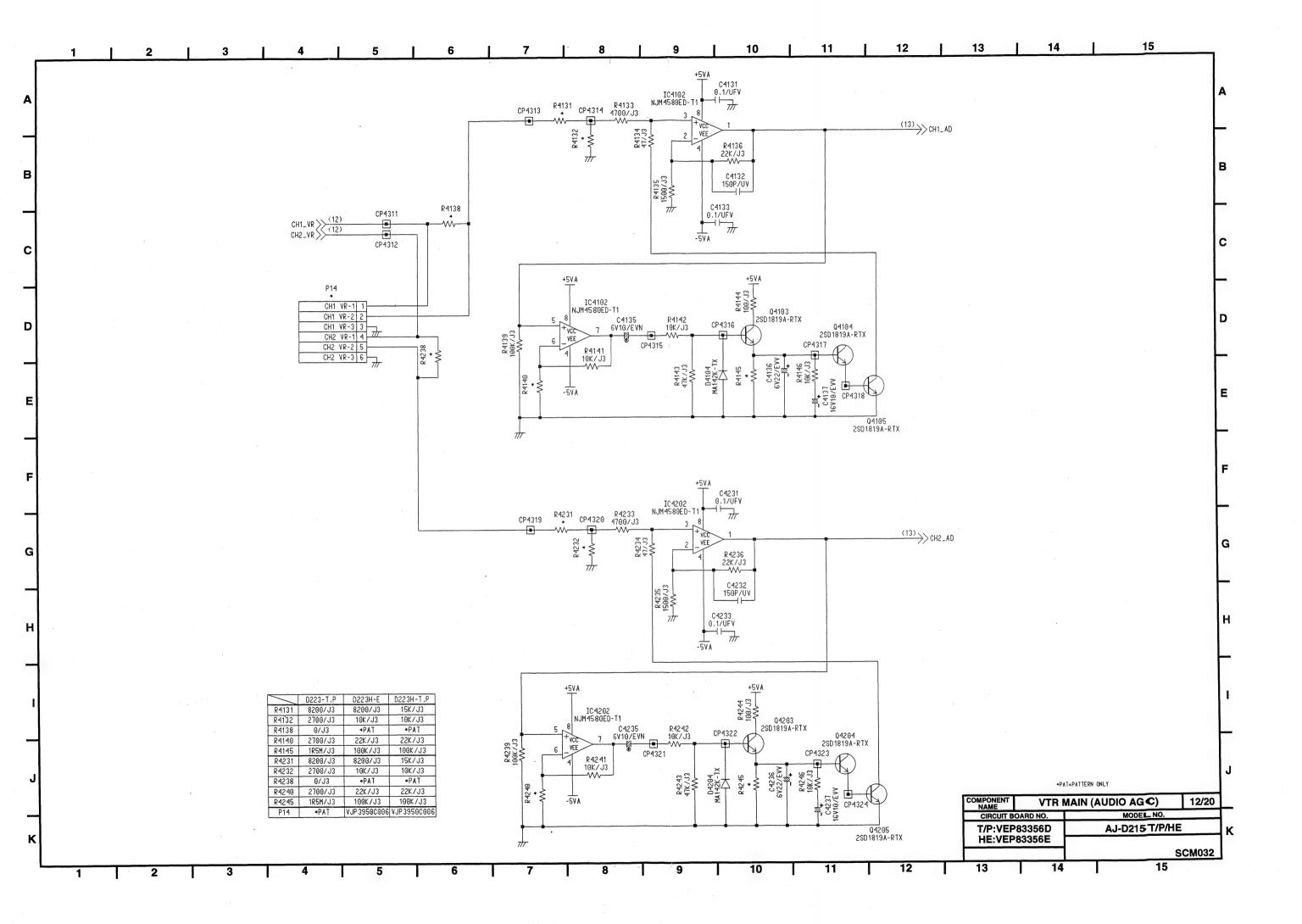


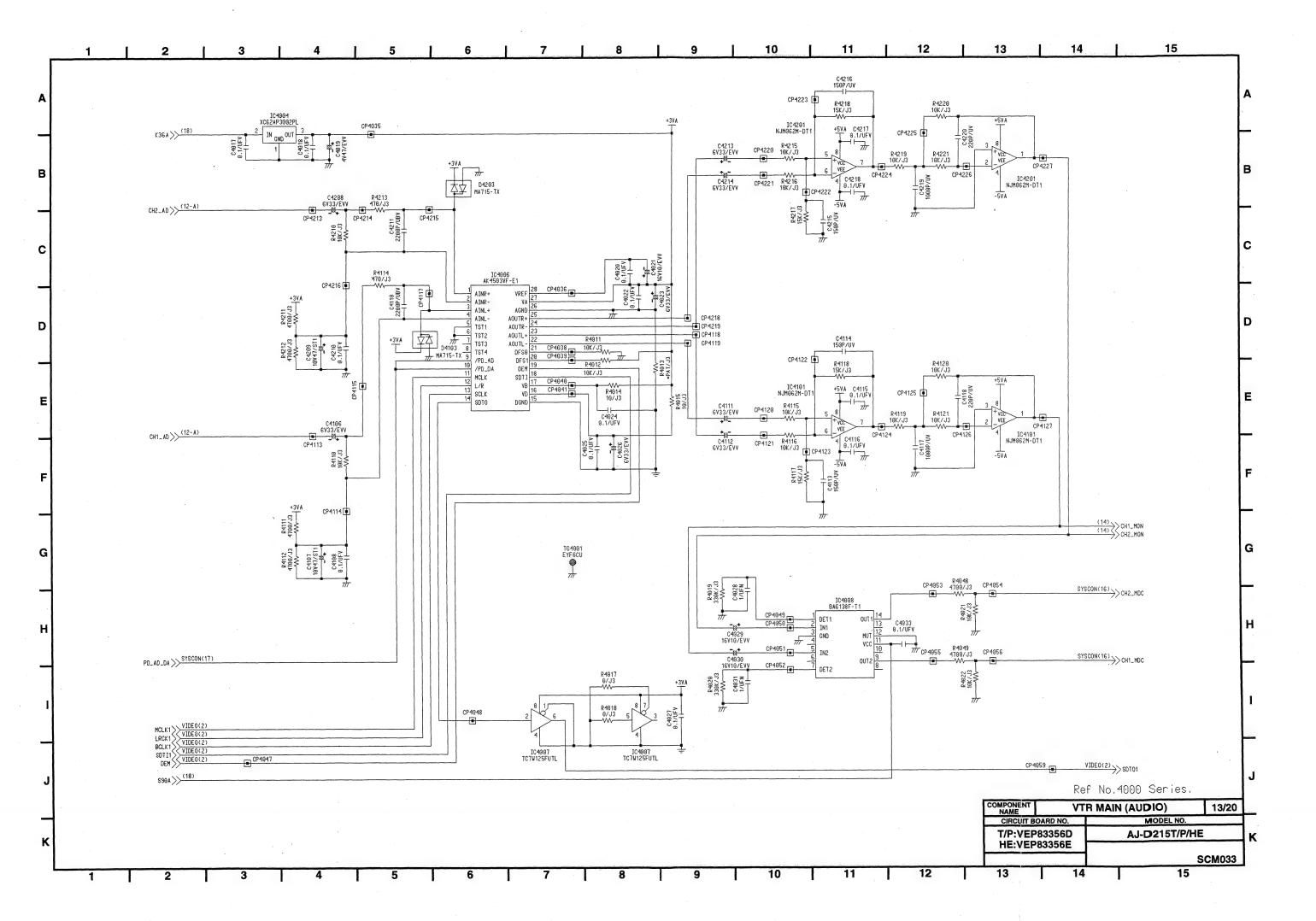


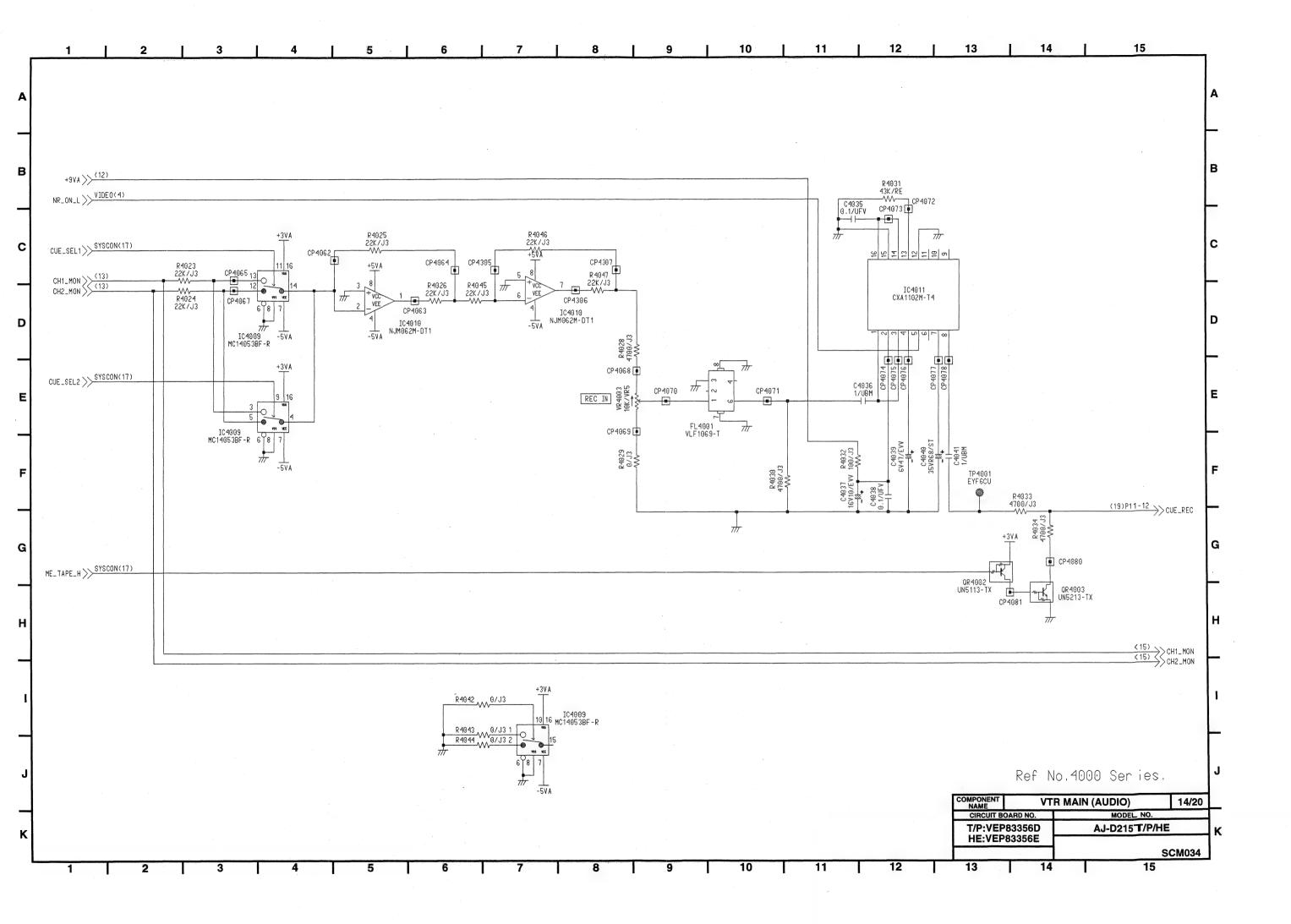


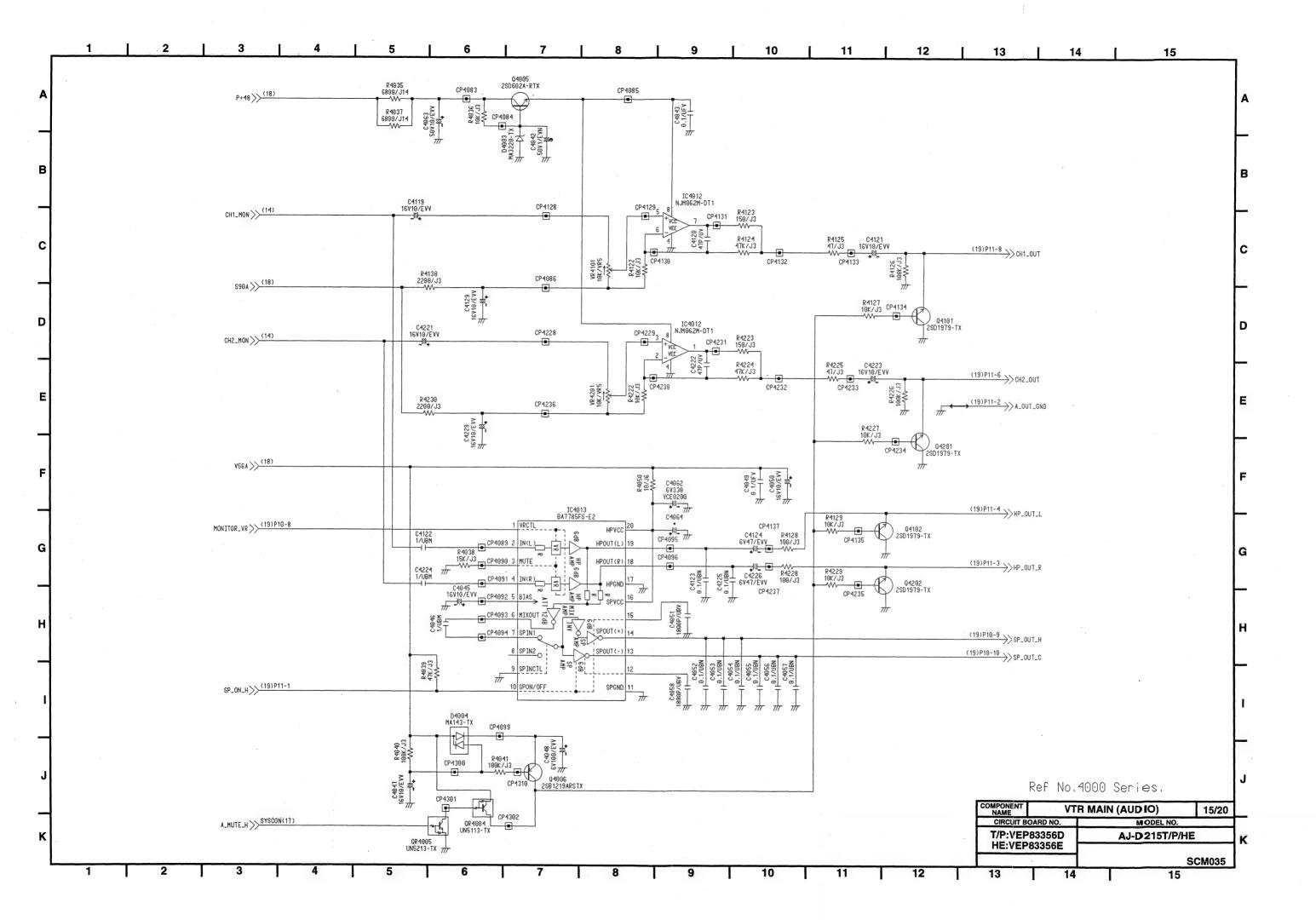


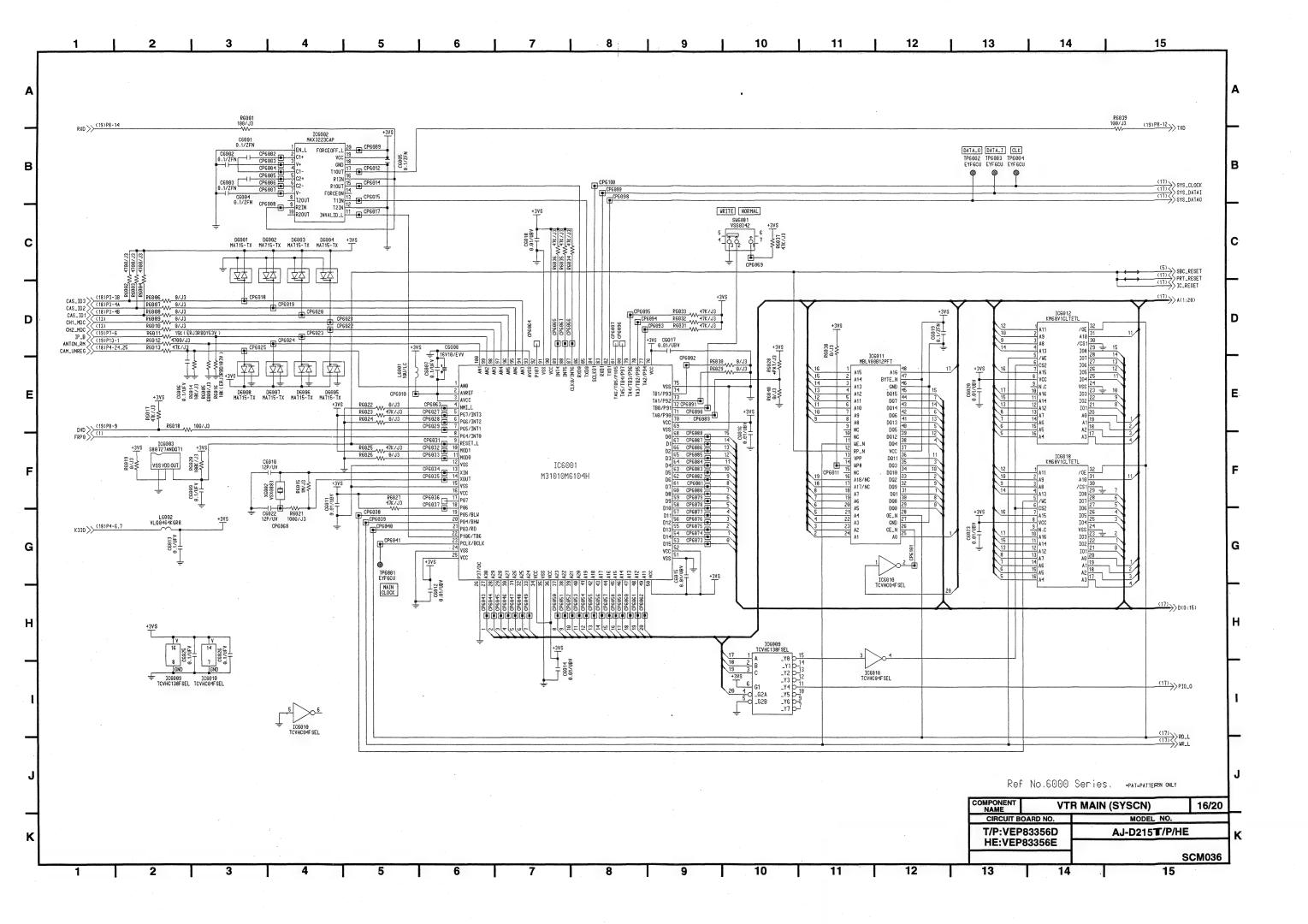












SECTION 7

CIRCUIT BOARD DIAGRAMS

CONTENS

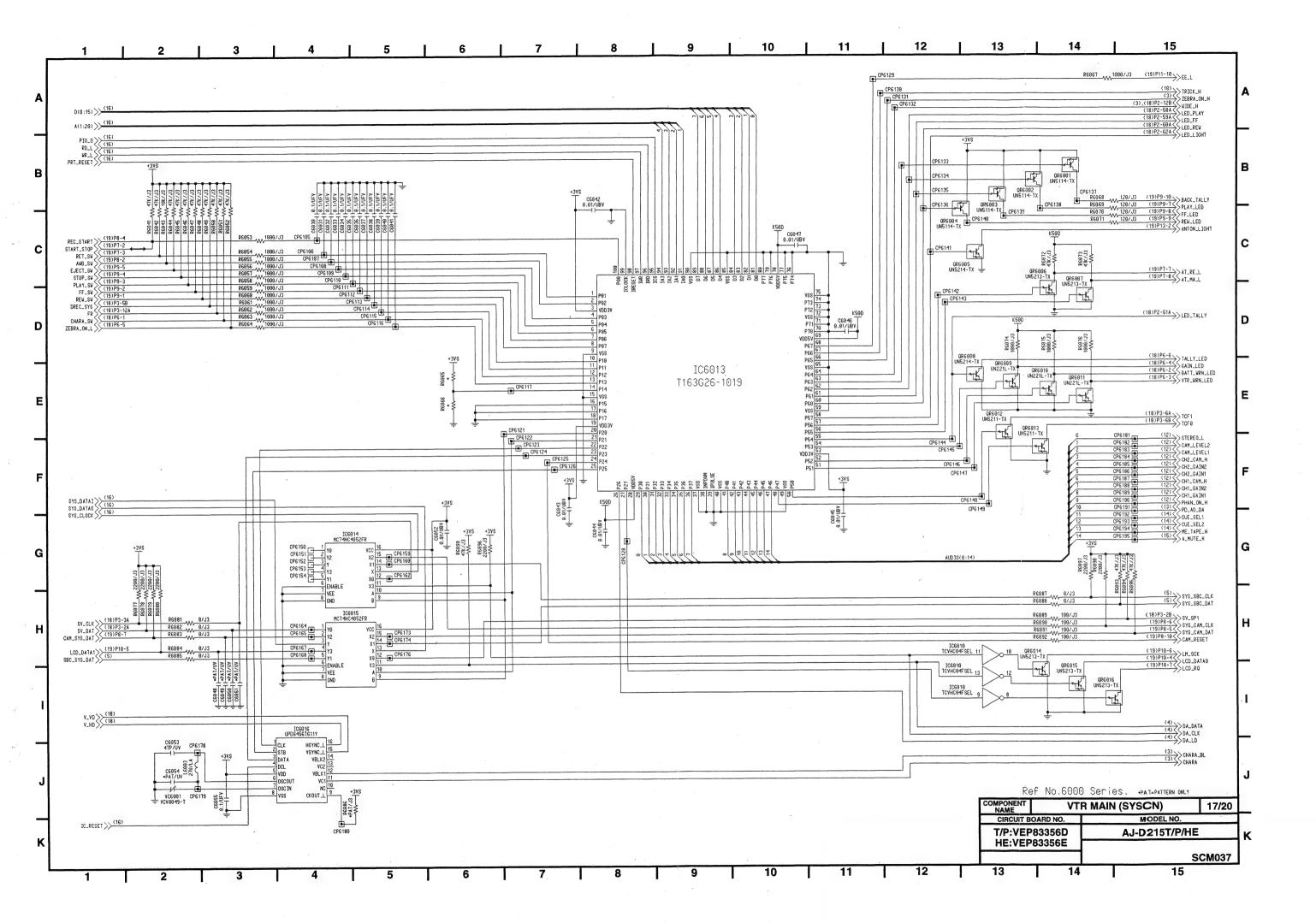
REAR JACK P. C. BOARD	. CBA-1
SERVO P. C. BOARD	
1394 & PRE-SHUFFLE P. C. BOARD (AJ-D215HE OMLY)	. CBA-4
VTR MAIN P.C. BOARD	. CBA-6
S SIDE P. C. BOARD	
MODE CHE CK P. C. BOARD	
FLEX RING P. C. BOARD	. CBA-8
MONITOR VR P. C. BOARD	. CBA-8
BACK UP BATTERY P. C. BOARD	
TOGGLE SW P. C. BOARD	
POWER P. C. BOARD	
FRONT P. C. BOARD	CBA-11
H DEF P. C. BOARD	CBA-11
V DEF P. C. BOARD	
CN P. C. BOARD	
OPERATE P. C. BOARD	
CRT MASK P. C. BOARD	
ATW SENSOR P. C. BOARD	
DVC PRO TERMINAL P. C. BOARD (AJ-D215HE ONLY)	
TEST PLUG P. C. BOARD	
AV OUT P. C. BOARD (FOR PAL)	
SENSOR (SENSOR, ANALOG PRE PROCESS) P. C. BOARD (FOR PAL)	
AV OUT P. C. BOARD (FOR NTSC)	
DC INPUT P. C. BOARD (FOR NTSC)	
SENSOR (SENSOR, ANALOG PRE PROCESS SECTION) P. C. BOARD (FOR NTSC)	
PROCESS (PROCESS, LENS DRIVE SECTION) P. C. BOARD (FOR NTSC)	
PROCESS (PROCESS, LENS DRIVE SECTION) P. C. BOARD (FOR PAL)	CBA-17

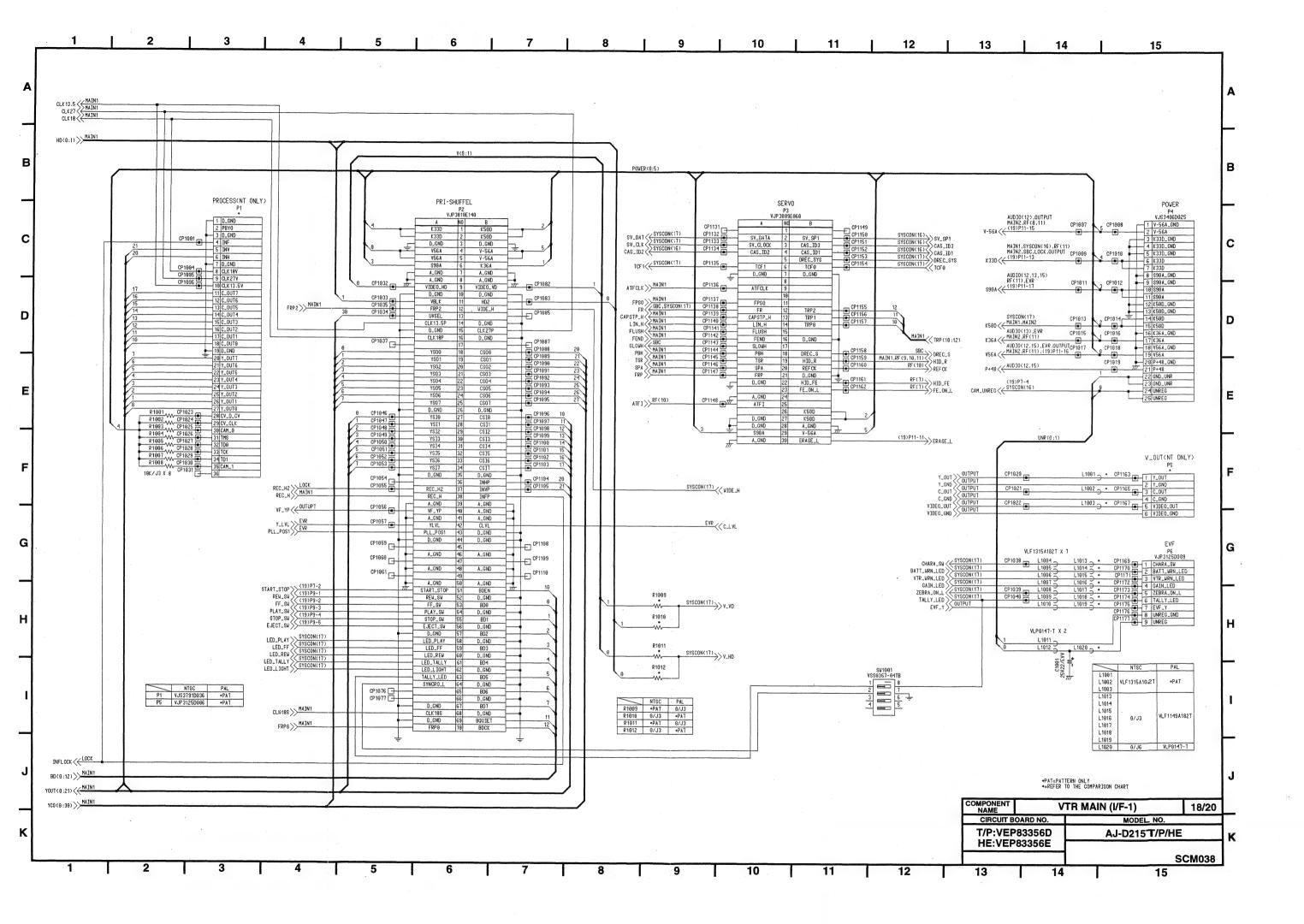
IMPORTANT SAFETY NOTICE

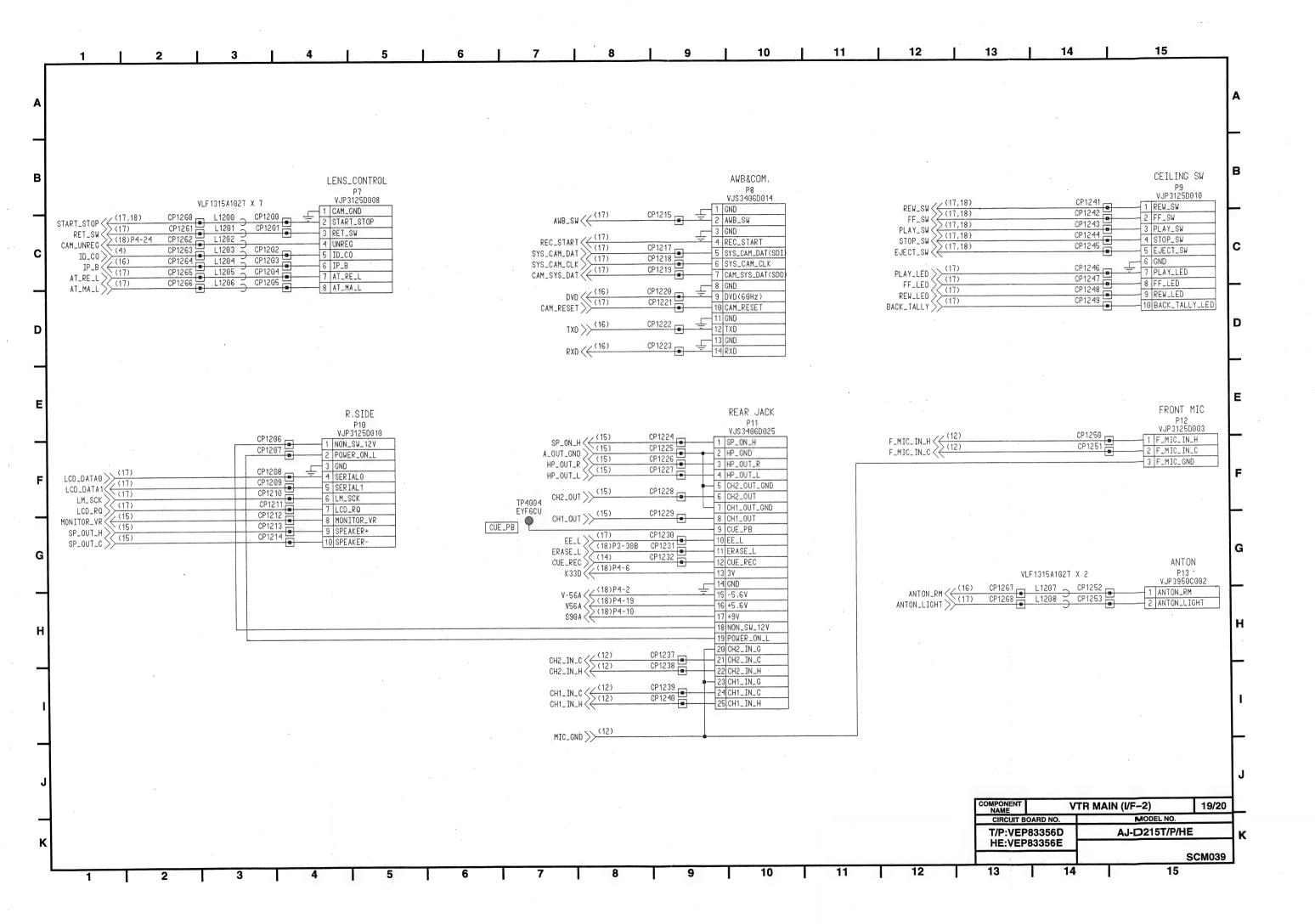
COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.

WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WASPREPARED.

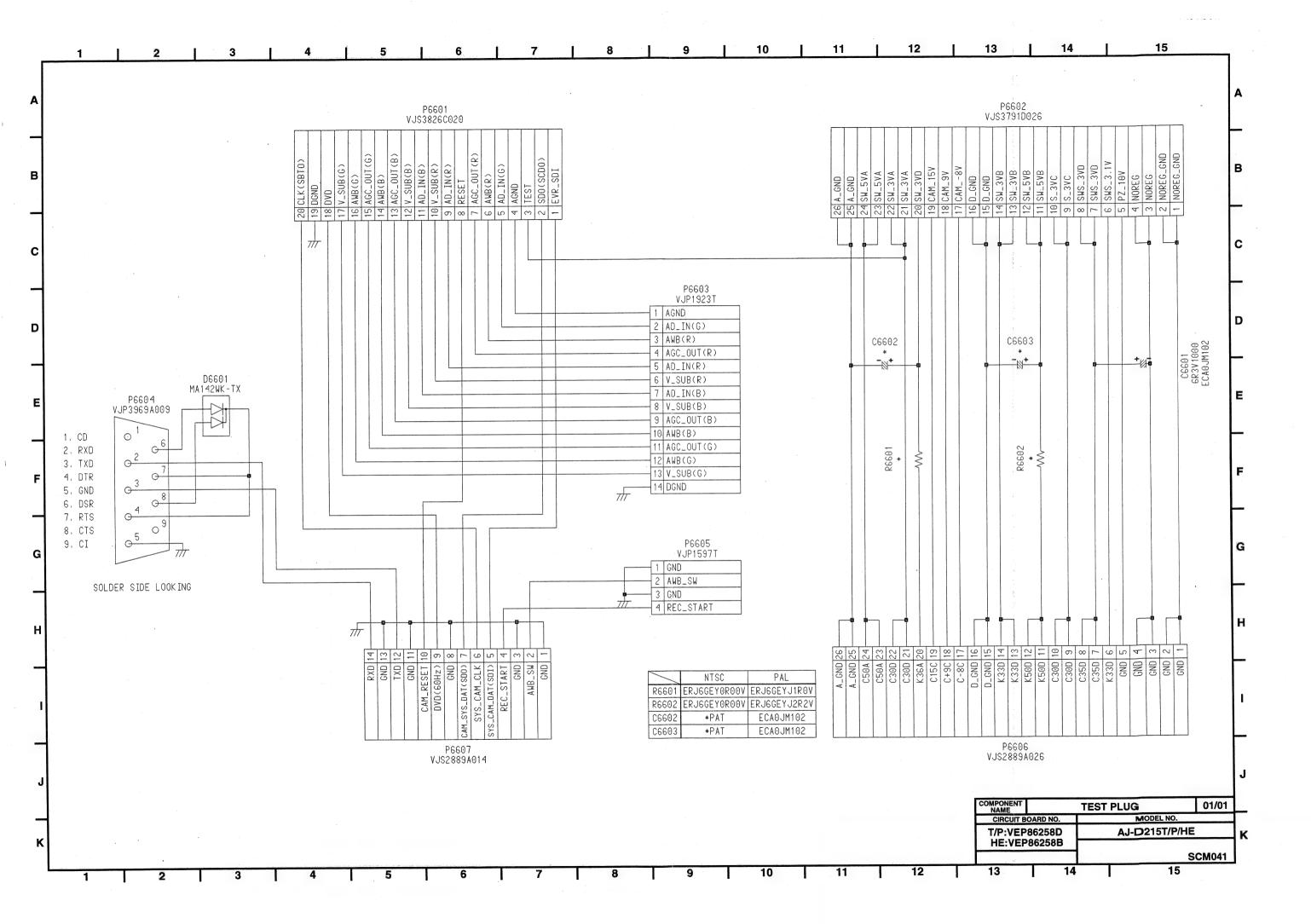


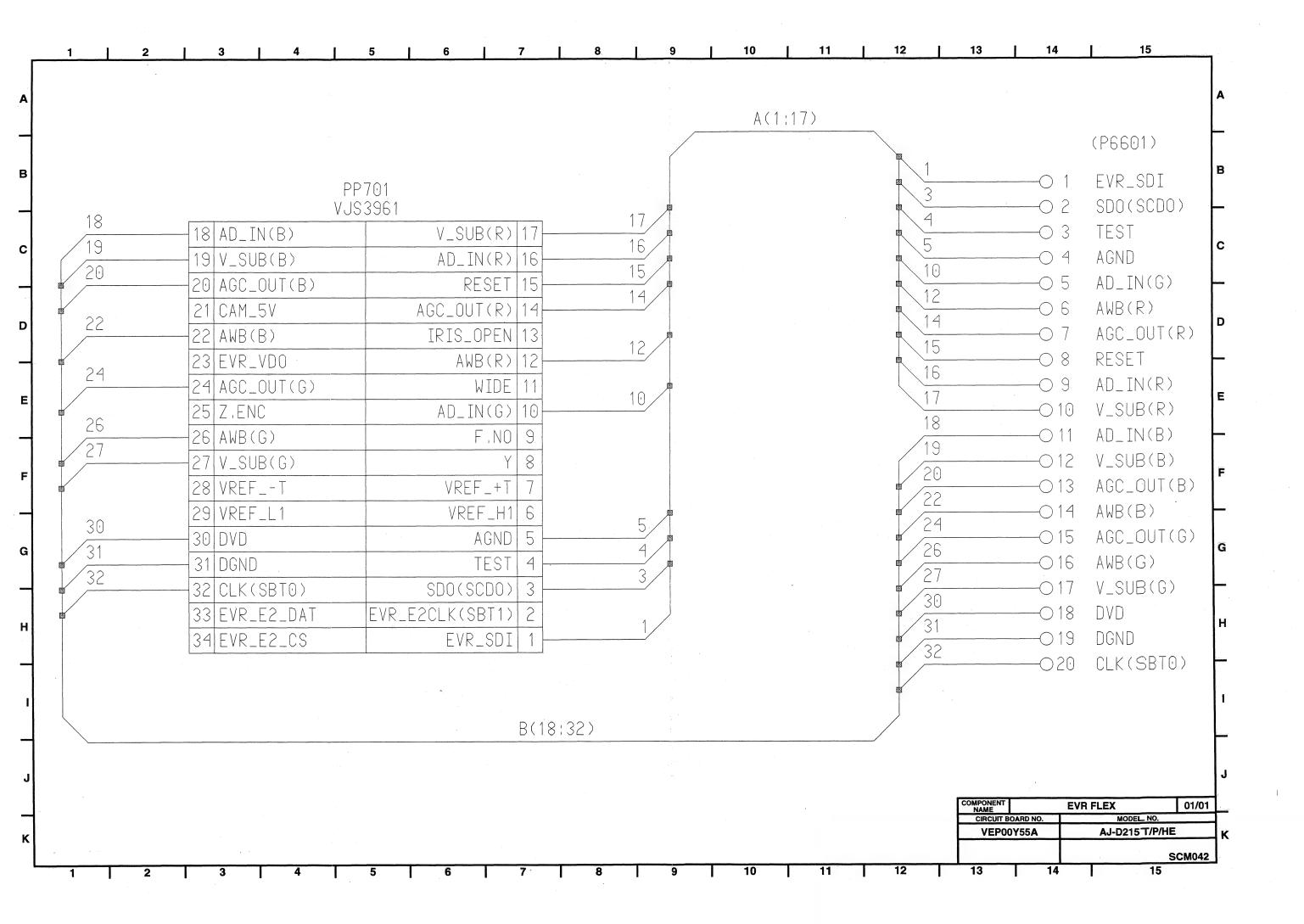


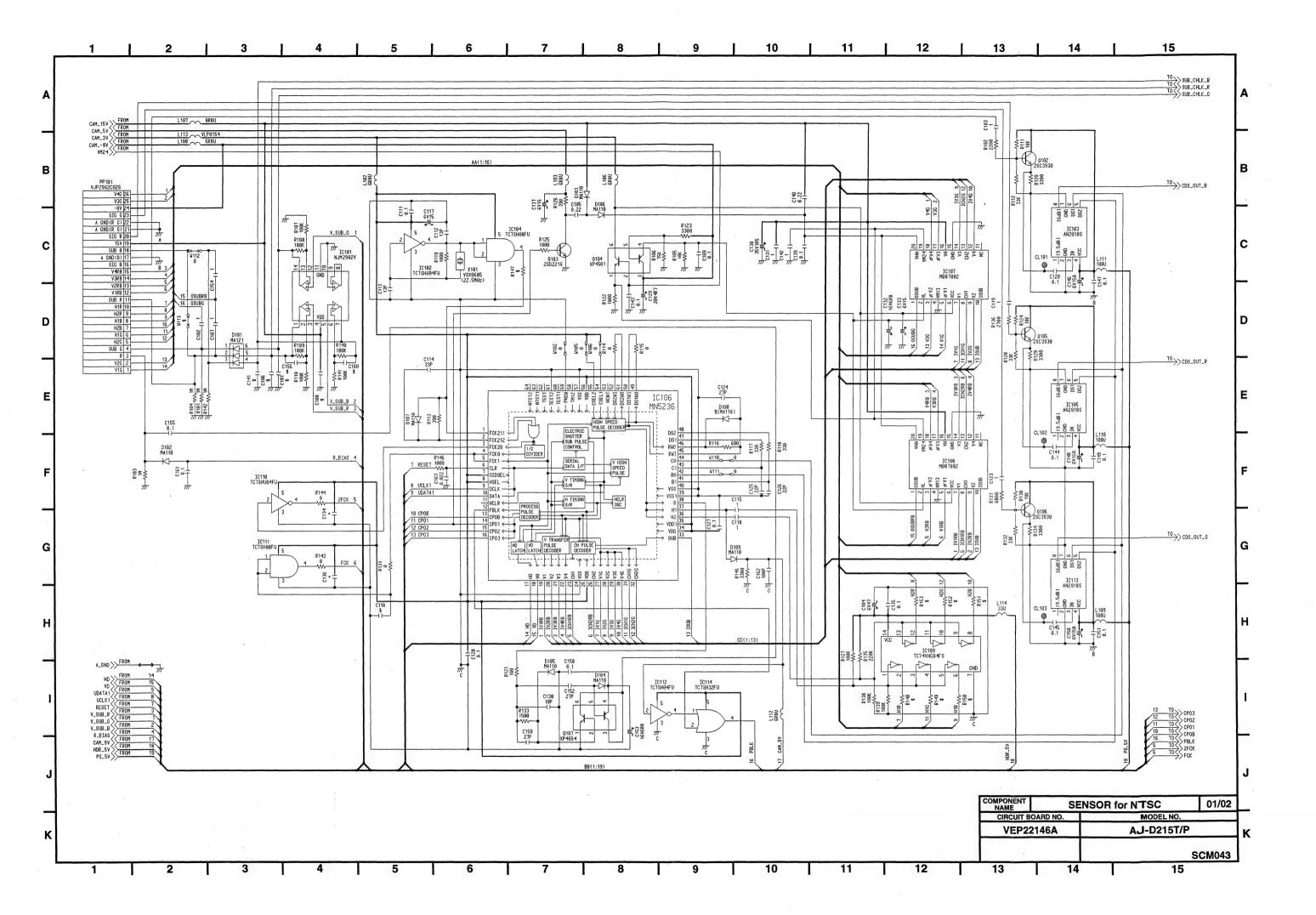


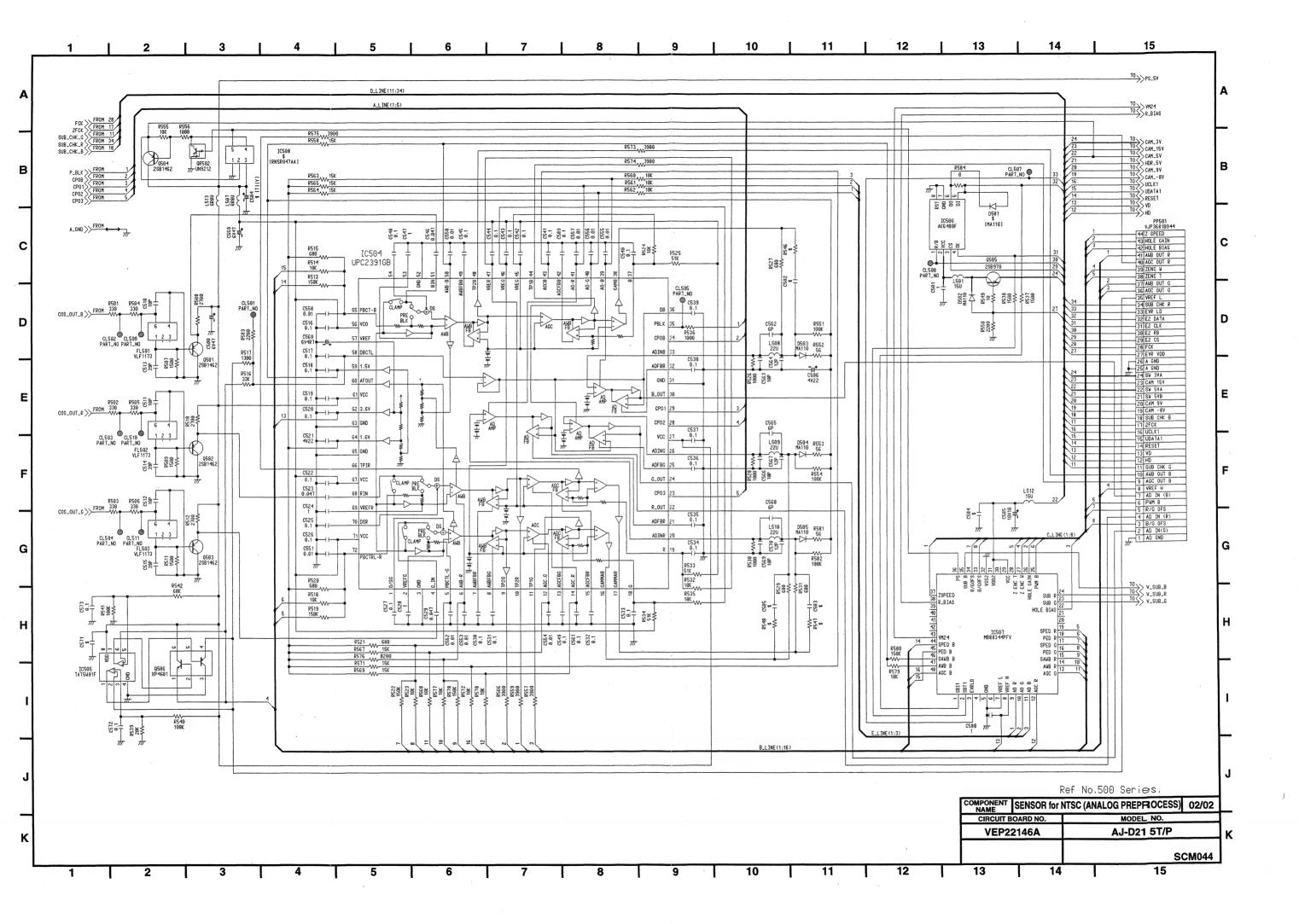
	12	11] 11	10			8	7	6	5		4	3	3	2
								-					·		
\$REF	NTSC	L	PAL	\$REF\$	NTSC		PAL	\$REF\$	NTSC	PAL	\$REF\$	NTSC *PAT/UV	,	PAL *PAT/UV	\$REF\$
R4132	*PAT/J3		*PAT/J3	R262	PAT/J3	4_	*PAT/J3	R111	*PAT	*PAT	C61 C63	*PAT/UV		*PAT/UV	C125
R4138	*PAT/J3		*PAT/J3	R263	PAT/J3	+-	*PAT/J3	R112 R116	*PAT/UBV *PAT/UBV	*PAT/UBV	C64	*PAT/UV		*PAT/UV	C127
R4140	*PAT/J3		*PAT/J3	R264	PAT/J3	+	*PAT/J3 *PAT/J3	R117	*PAT/UBV	*PAT/UBV	C65	*PAT/UV		*PAT/UV	C128
R4145	*PAT/RE7		*PAT/RE7 *PAT/J3	R265 R266	AT/J3	+-	*PAT/J3	R118	*PAT/UBV	*PAT/UBV	C80	*PAT/UFV	V	*PAT/UFV	C129
R4231 R4232	*PAT/J3 *PAT/J3		*PAT/J3	R267	AT/J3	+	*PAT/J3	R135	*PAT/UBV	*PAT/UBV	C81	*PAT/UFV	٧	*PAT/UFV	C130
R4238	*PAT/J3		*PAT/J3	R268	AT/J3	+-	*PAT/J3	R136	*PAT/UBV	*PAT/UBV	C82	*PAT/UBV	٧	*PAT/UBV	C131
R4240	*PAT/J3		*PAT/J3	R269	AT/J3		*PAT/J3	R137	*PAT/UBV	*PAT/UBV	C88	*PAT/UV		*PAT/UV	C136
R4245	*PAT/J3		*PAT/J3	R27	AT/J3		*PAT/J3	R138	*PAT	*PAT	FL2	*PAT/UV		*PAT/UV	C137
R505	*PAT/J3		*PAT/J3	R270	AT/J3		*PAT/J3	R139	*PAT	*PAT	FL4	*PAT/UFV		*PAT/UFV	C142
R527	*PAT/J3	/J3	*PAT/J3	R271	AT/J3		*PAT/J3	R141	*PAT	*PAT	IC15	*PAT/UV		*PAT/UV	C143
R529	*PAT/J3	/J3	*PAT/J3	R272	AT/J3		*PAT/J3	R142	MN4707F	MN4707F	IC2	*PAT/UV		*PAT/UV	C144
R531	*PAT/J3	/J3	*PAT/J3	R273	AT/J3		*PAT/J3	R143	*PAT	*PAT	IC26	*PAT/UV		*PAT/UV *PAT/UBN	C149
R532	*PAT/J3	/J3	*PAT/J3	R274	AT/J3		*PAT/J3	R145	*PAT	*PAT	IC31	*PAT/UBN *PAT/UFV		*PAT/UFV	C150
R545	*PAT/J3		*PAT/J3	R275	AT/J3	-	*PAT/J3	R146	*PAT	*PAT	IC32	*PAT/UFV		*PAT/UFV	C151
R548	*PAT/RE7		*PAT/RE7	R276	AT/J3		*PAT/J3	R147	*PAT	*PAT	IC35	*PAT/EVV		*PAT/EVV	C152
R6028	*PAT/J3		*PAT/J3	R277	AT/J3		*PAT/J3	R148 R149	*PAT	*PAT	IC48	*PAT/UV		*PAT/UV	C153
R6065	*PAT/J3		*PAT/J3	R278	AT/J3	-	*PAT/J3 *PAT/J3	R150	*PAT/LA	*PAT/LA	L10	*PAT/UFV		*PAT/UFV	C154
R6066	*PAT/J3		*PAT/J3	R279	AT/J3 AT/J3	-	*PAT/J3	R151	*PAT/LC	*PAT/LC	L12	*PAT/EVN	V	*PAT/EVN	C155
R6086	*PAT/J3		*PAT/J3	R280 R289	T/RE7	+	*PAT/RE7	R153	*PAT/LC	*PAT/LC	L13	*PAT/UBN	N	*PAT/UBN	C156
R74	*PAT/RE7 *PAT/J3		*PAT/J3	R290	AT/J3	+	*PAT/J3	R154	*PAT/LC	*PAT/LC	L17	*PAT/UV		*PAT/UV	C159
R75	*PAT/J3		*PAT/J3	R295	AT/J3	+-	*PAT/J3	R155	*PAT	*PAT	L31	15P/UV		15P/UV	C160
R77	*PAT/J3		*PAT/J3	R296	AT/J3	_	*PAT/J3	R156	*PAT/LA	*PAT/LA	L40	*PAT/EVV		*PAT/EVV	C167
R78	*PAT/J3		*PAT/J3	R300	AT/J3	1	*PAT/J3	R157	*PAT/LA	*PAT/LA	L41	*PAT/UV		*PAT/UV	C181
R81	*PAT/J3		*PAT/J3	R3010	AT/J3		*PAT/J3	R158	*PAT	*PAT	L1001	*PAT/UV		*PAT/UV	C182
R84	*PAT/J3		*PAT/J3	R3012	AT/J3		*PAT/J3	R161	*PAT	*PAT	L1002	*PAT/UFV		*PAT/UFV	C183
R85	*PAT/RE7	RE7	*PAT/RE7	R3210	AT/J3		*PAT/J3	R162	*PAT	*PAT	L1003	*PAT/UFV		*PAT/UFV	C184
R86	*PAT/RE7	RE7	*PAT/RE7	R3211	AT/J3		*PAT/J3	R163	VLF1149A182T	VLF1149A182T	L1013	*PAT/UFV		*PAT/UFV	C186
R87	*PAT/J3	J3	*PAT/J3	R3227	AT/J3		*PAT/J3	R164	VLF1149A182T	VLF1149A182T	L1014	*PAT/EVV		*PAT/EVV	C187
R88	*PAT/J3	J3	*PAT/J3	R3264	AT/J3		*PAT/J3	R165	VLF1149A182T	VLF1149A182T	L1015	*PAT/UFV		*PAT/EVV	C190
R89	*PAT/J3	J3	*PAT/J3	R3293	T/RE7		*PAT/RE7	R166	VLF1149A182T	VLF1149A182T	L1016	*PAT/EVV		*PAT/UFV	C196
R90	*PAT/J3		*PAT/J3	R3294	T/RE7	-	*PAT/RE7	R167	VLF1149A182T	VLF1149A182T	L1017	*PAT/UBV		*PAT/UBV	C197
R91	*PAT/J3		*PAT/J3	R3295	AT/J3	-	*PAT/J3	R168	VLF1149A182T VLF1149A182T	VLF1149A182T VLF1149A182T	L1019	*PAT/UV		*PAT/UV	C3101
R92	*PAT/J3		*PAT/J3	R3296	AT/J3	+	*PAT/J3	R169 R170	VLP0147-T	VLP0147-T	L1020	*PAT/UV		*PAT/UV	C3103
R93	*PAT/J3		*PAT/J3	R3342 R3400	AT/J3 AT/J3	-	*PAT/J3	R171	*PAT/LA	*PAT/LA	L3302	*PAT/UV		*PAT/UV	C3108
R94	*PAT/J3 *PAT/J3		*PAT/J3 *PAT/J3	R3401	AT/J3	+	*PAT/J3	R179	*PAT	*PAT	P1	*PAT/UV		*PAT/UV	C3110
R95	*PAT/J3		*PAT/J3	R3402	AT/J3	+	*PAT/J3	R180	*PAT	*PAT	P5	*PAT/UV		*PAT/UV	C3209
R97	*PAT/J3		*PAT/J3	R3403	AT/J3	1	*PAT/J3	R181	VJP3950C006	VJP3950C006	P14	*PAT/UV		*PAT/UV	C3216
R98	*PAT/J3		*PAT/J3	R3404	AT/J6		*PAT/J6	R182	*PAT	*PAT	Q1	*PAT/UV		*PAT/UV	C3226
R99	*PAT/J3		*PAT/J3	R3405	AT/J3		*PAT/J3	R189	*PAT	*PAT	Q11	*PAT/UV		*PAT/UV	C3230
TP13	*PAT/J3		*PAT/J3	R3406	/J3		0/J3	R190	*PAT	*PAT	Q12	*PAT/UV		*PAT/UV	C3237
TP14	*PAT/J3	J3	*PAT/J3	R3407	AT/J3		*PAT/J3	R199	*PAT	*PAT	Q13	*PAT/UFV		*PAT/UFV	C3248
TP15	*PAT/J3	J3	*PAT/J3	R3408	AT/J3		*PAT/J3	R220	*PAT	*PAT	Q14	*PAT/UFV		*PAT/UFV	C3249 C3250
TP3	*PAT/J3	J3	*PAT/J3	R3409	AT/J3		*PAT/J3	R221	*PAT	*PAT	Q15	*PAT/UFV		*PAT/UFV *PAT/USV	C3251
TP4	*PAT/J3	J3	*PAT/J3	R3410	AT/J3		*PAT/J3	R229	*PAT	*PAT	Q18	*PAT/USV		*PAT/USV	C3252
VC1	*PAT/J3		*PAT/J3	R3411	7/J3	+	47/J3	R230	*PAT	*PAT	Q19 Q2	*PAT/UFV		*PAT/UFV	C3253
VR10	*PAT/J3		*PAT/J3	R3412	AT/J3	+	*PAT/J3	R231 R233	*PAT	*PAT	Q24	*PAT/USV		*PAT/USV	C3254
VR12	*PAT/J3		*PAT/J3	R3413	0/RE7 AT/J3	+	1000/RE7 *PAT/J3	R237	*PAT	*PAT	Q3	*PAT/USV		*PAT/USV	C3255
VR3300	*PAT/J3		*PAT/J3	R3414 R3415	/J3	+	0/J3	R239	*PAT	*PAT	Q3231	6V330		6V330	C4064
VR5	*PAT/J3 *PAT/J3		*PAT/J3	R3419	T/RE7	1	*PAT/RE7	R247	*PAT	*PAT	Q3232	*PAT		*PAT	C55
VR6 VR7	*PAT/J3		*PAT/J3	R3421	T/RE7		*PAT/RE7	R248	*PAT	*PAT	Q3233	*PAT		*PAT	C56
VR8	*PAT/J3		*PAT/J3	R3422	AT/J3	1	*PAT/J3	R252	*PAT	*PAT	Q3234	*PAT/UBV		*PAT/UBV	C57
X2	*PAT/J3		*PAT/J3	R3430	AT/J3		*PAT/J3	R254	*PAT	*PAT	Q4	*PAT/EVV		*PAT/EVV	C58
	*PAT/J3		*PAT/J3	R3437	AT/J3		*PAT/J3	R255	*PAT	*PAT	Q5	*PAT/UBV		*PAT/UBV	C59
***	*PAT/J3		*PAT/J3	R3440	AT/J3		*PAT/J3	R256	*PAT	*PAT	Q7	*PAT		*PAT	C60
	*PAT/J3		*PAT/J3	R3502	AT/J3		*PAT/J3	R257	*PAT/J3	*PAT/J3	R1	*PAT/UV		*PAT/UV	C6048
	*PAT/J3	J3	*PAT/J3	R3507	AT/J3		*PAT/J3	R258	0/J3	0/J3	R1009	*PAT/UV		*PAT/UV	C6049 C6050
	*PAT/J3	J3	*PAT/J3	R3539	AT/J3		*PAT/J3	R259	*PAT/J3	*PAT/J3	R1010	*PAT/UV		*PAT/UV	C6051
	*PAT/J3		*PAT/J3	R4013	AT/J3	1	*PAT/J3 *PAT/J3	R260 R261	0/J3 *PAT/J3	0/J3 *PAT/J3	R1011	*PAT/UV		*PAT/UV	26054
co	15K/J3		8200/J3	R4131	· .										
					•								- A		

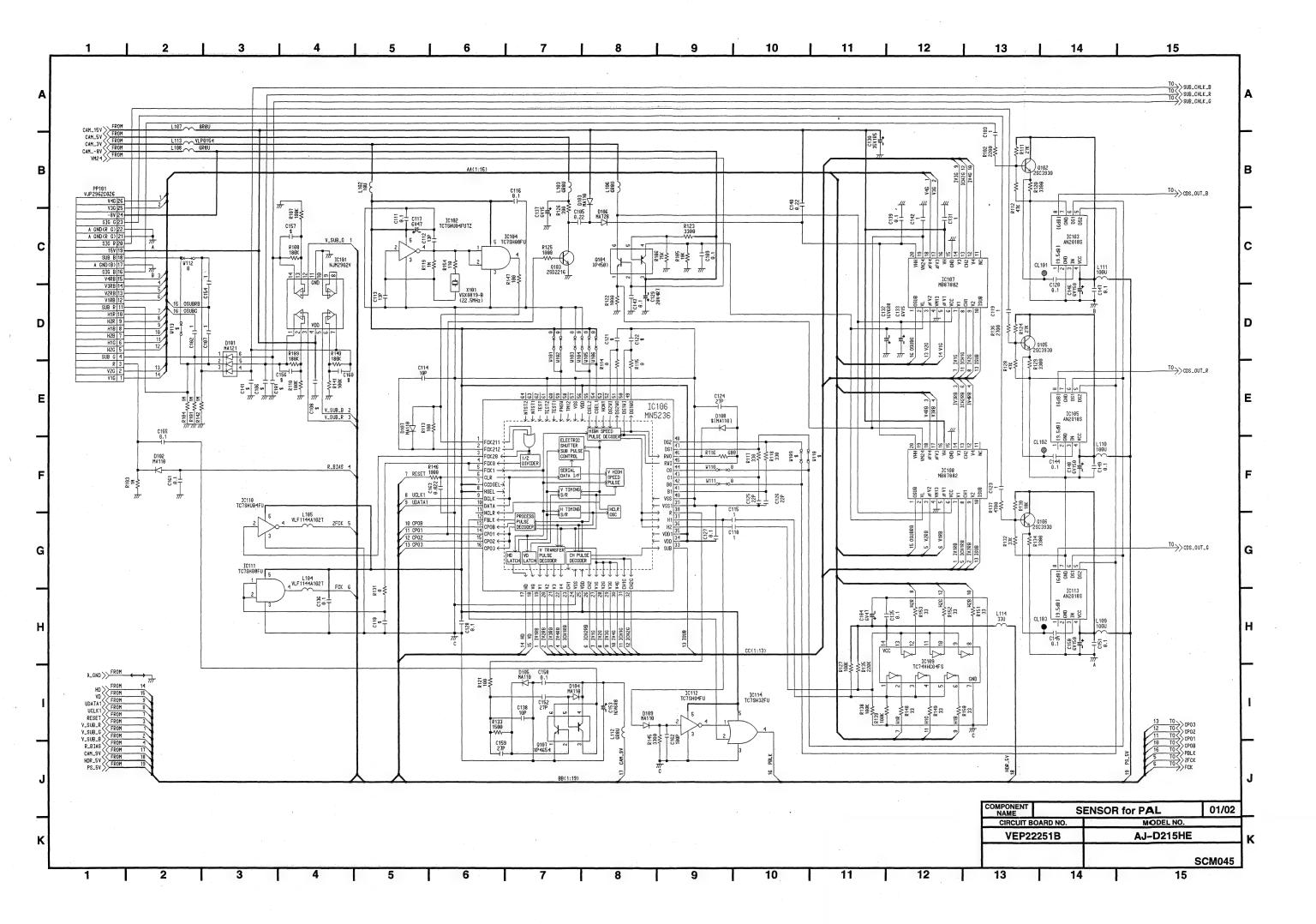
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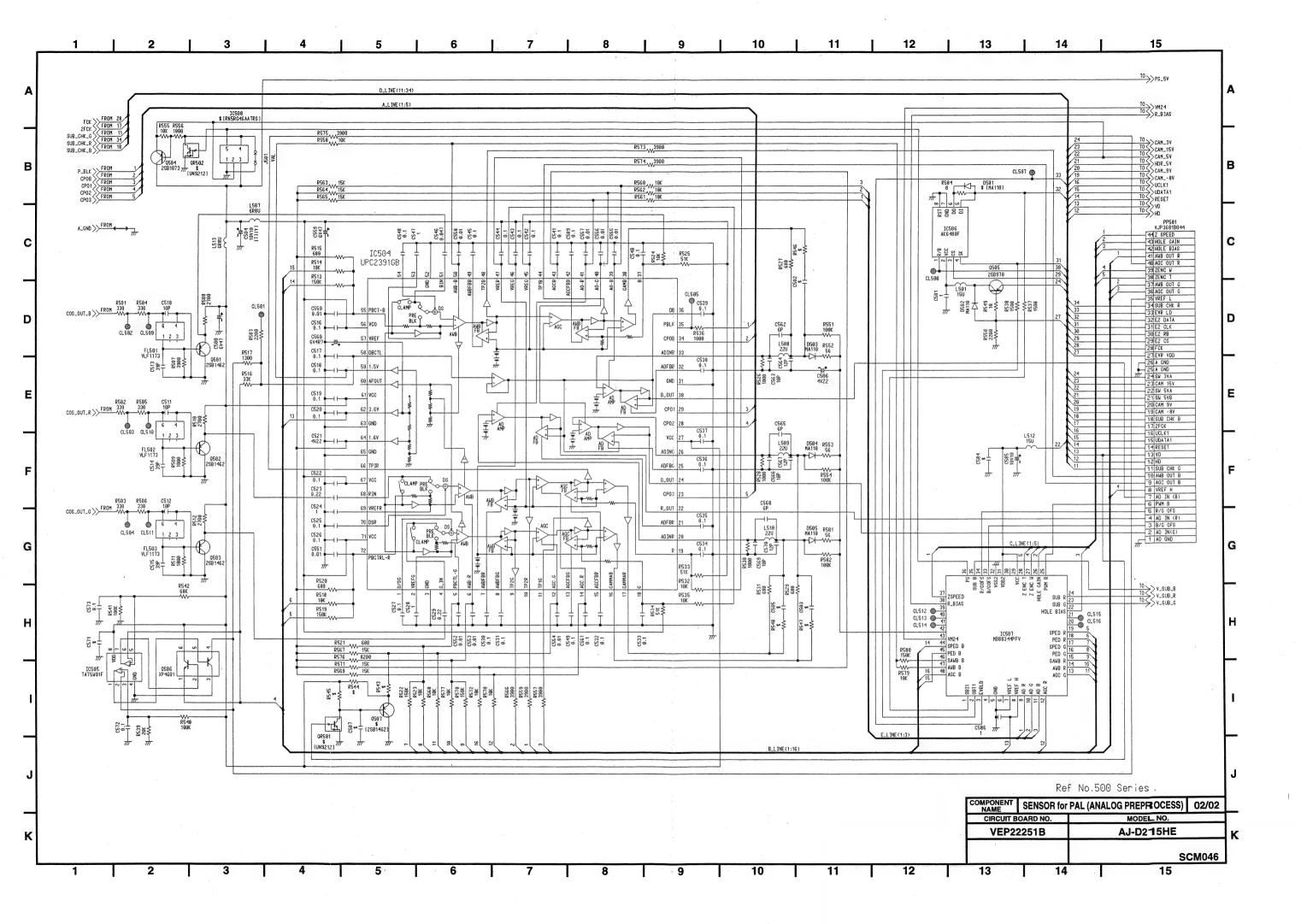


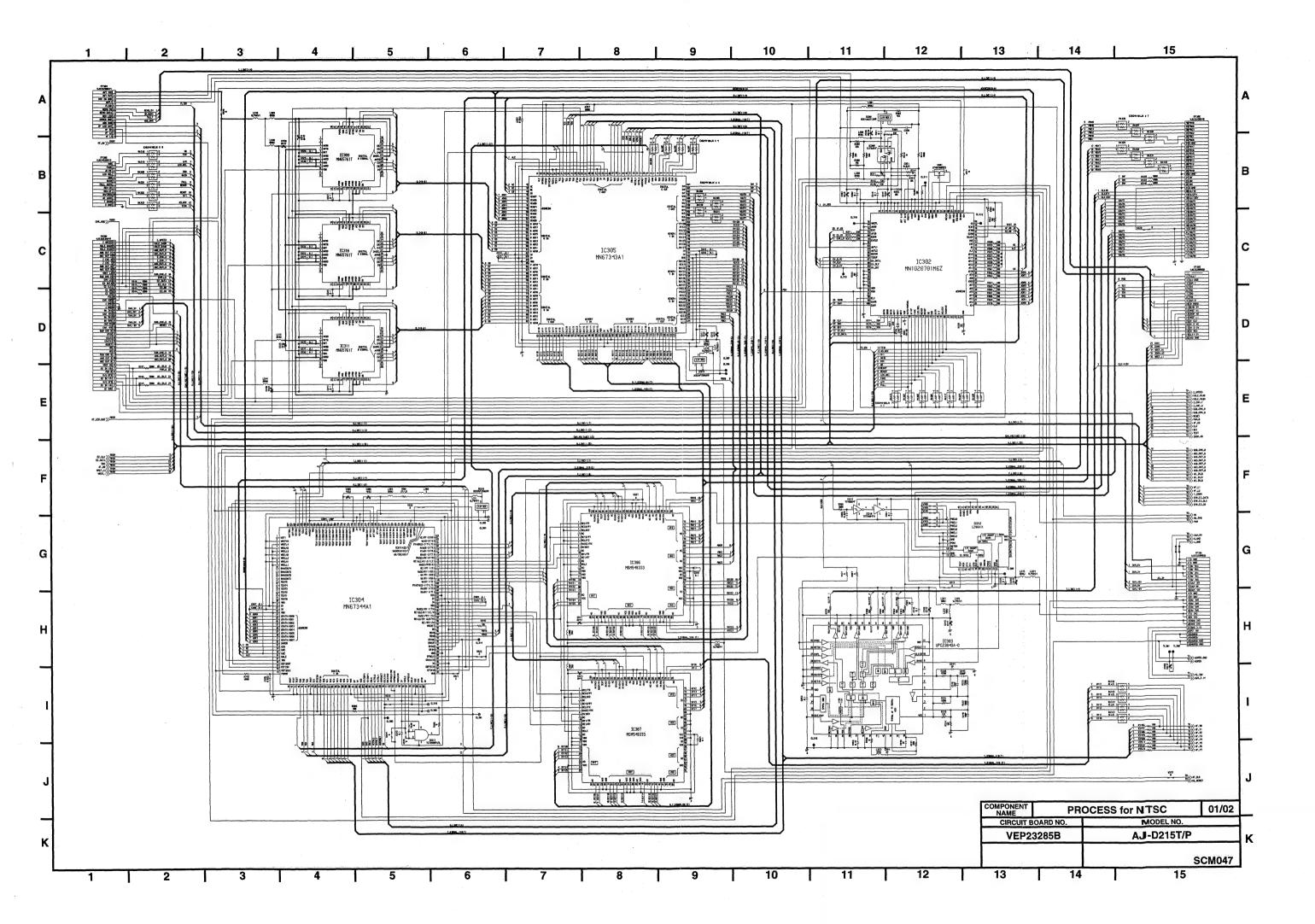


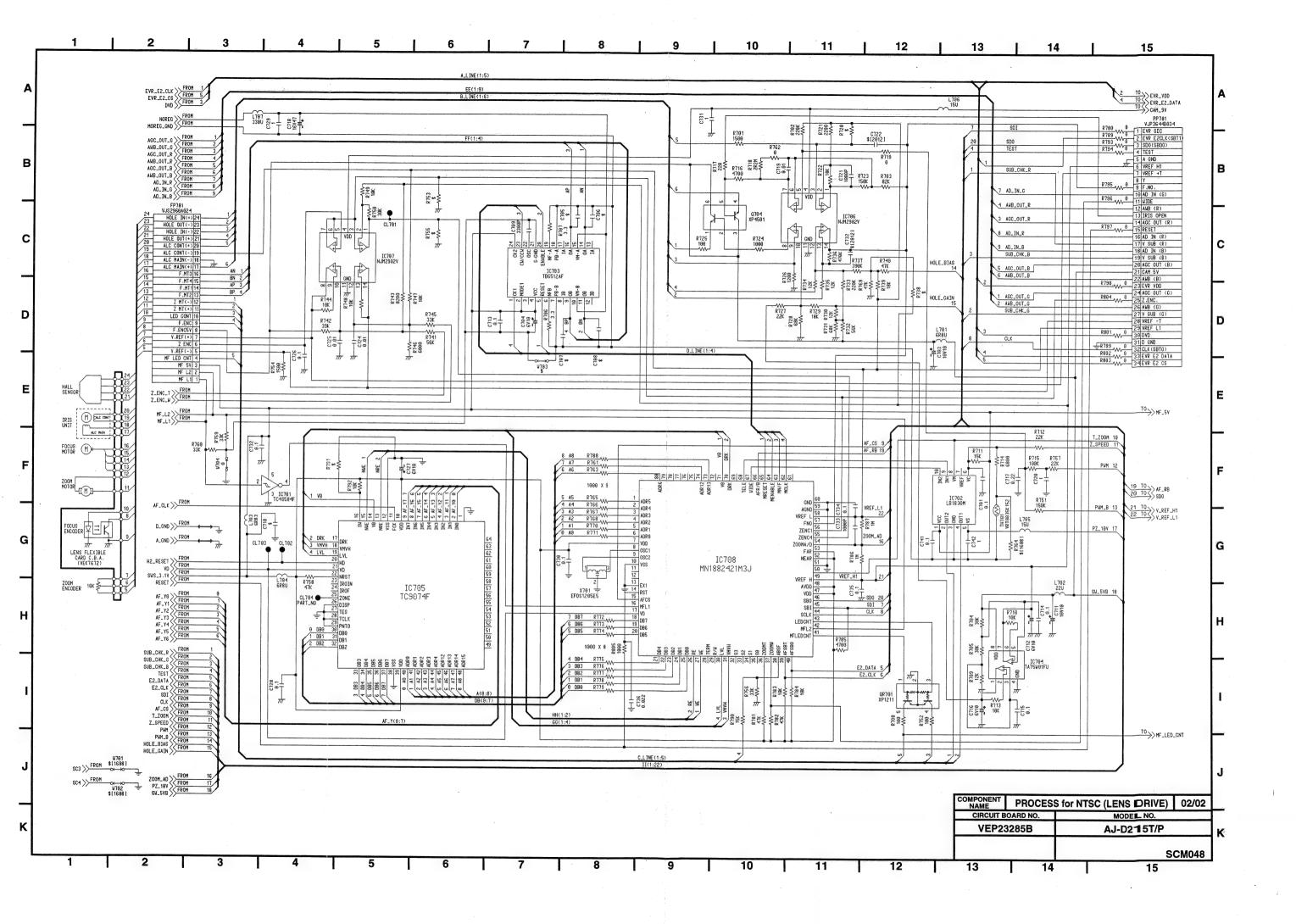


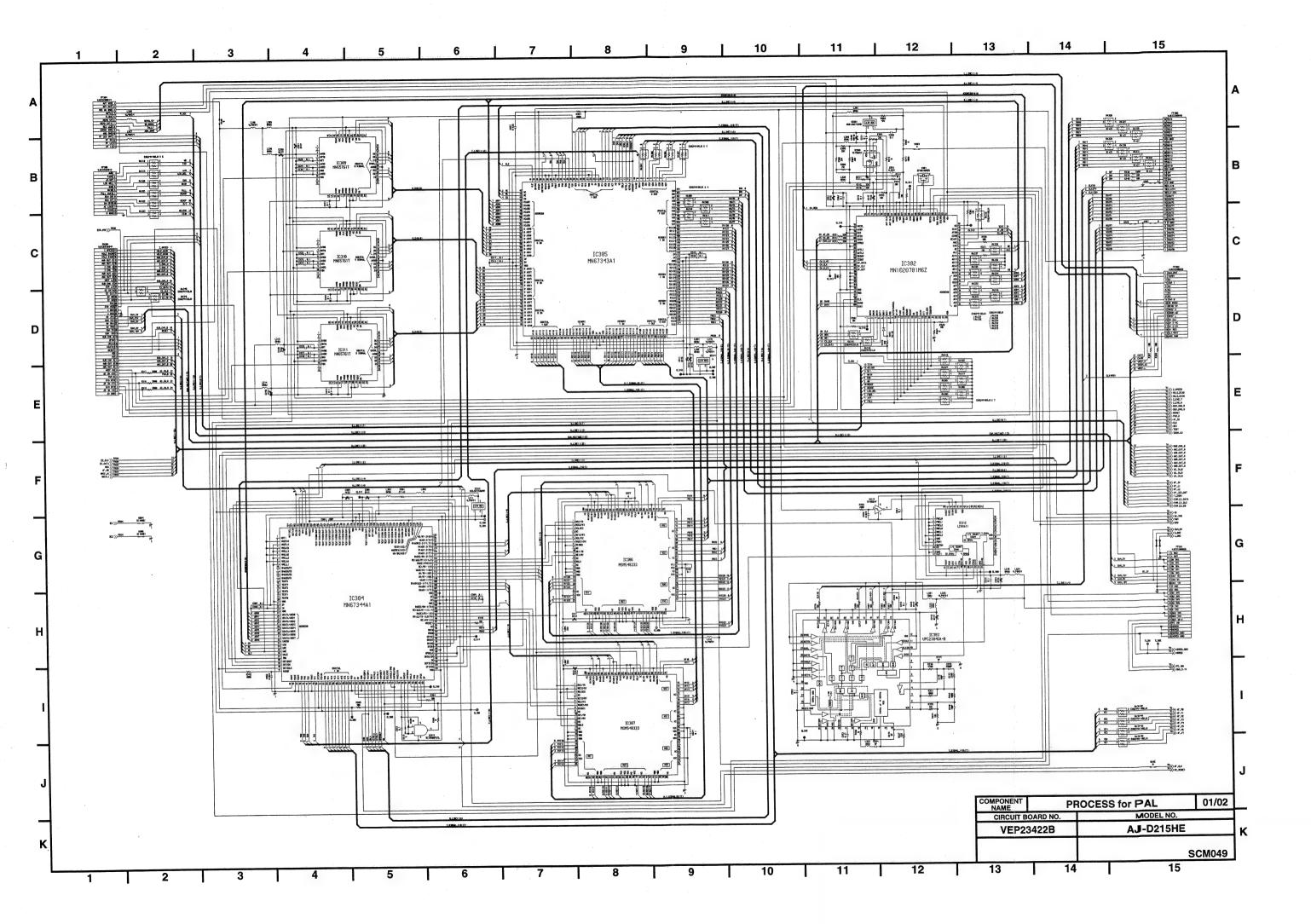


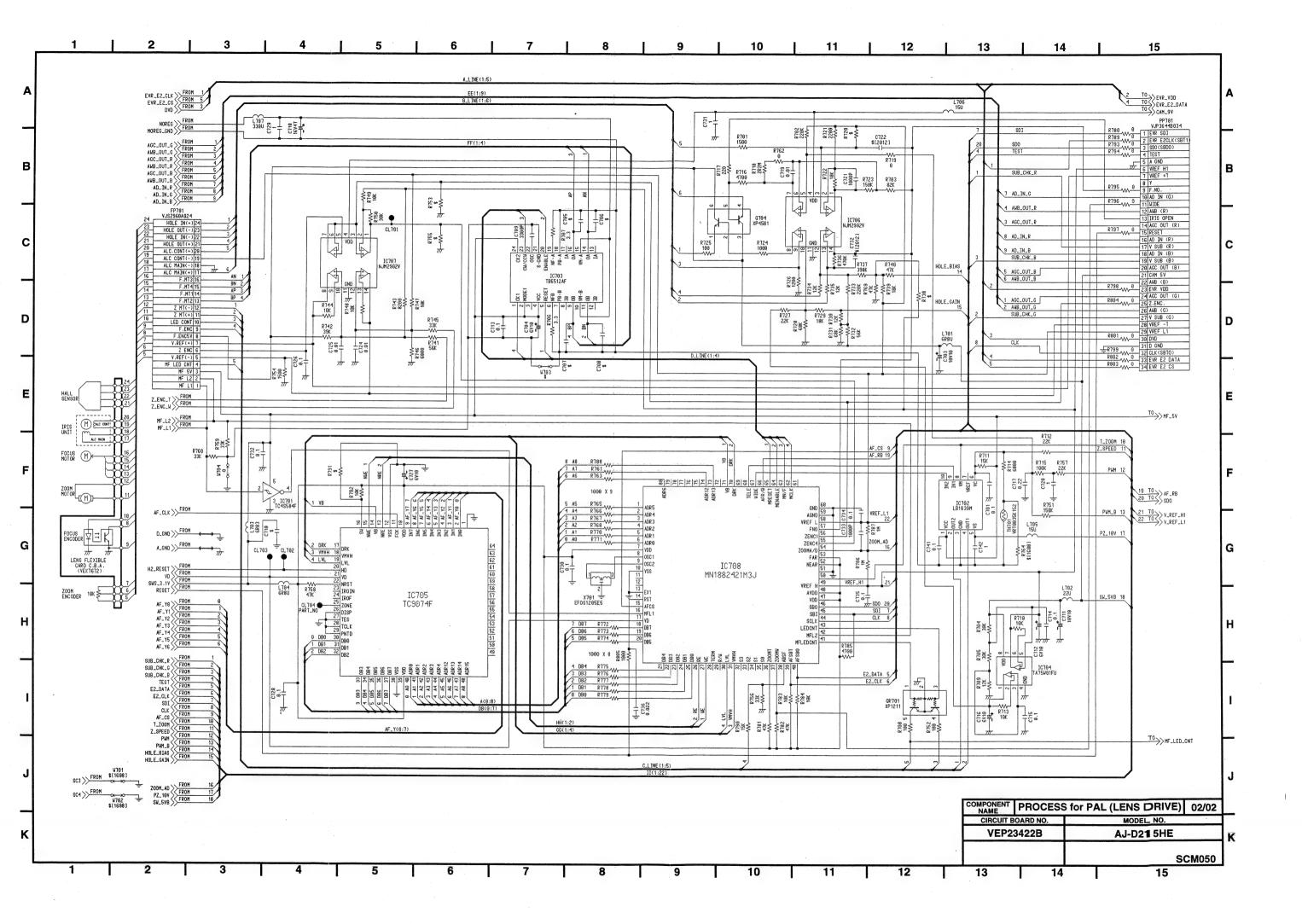


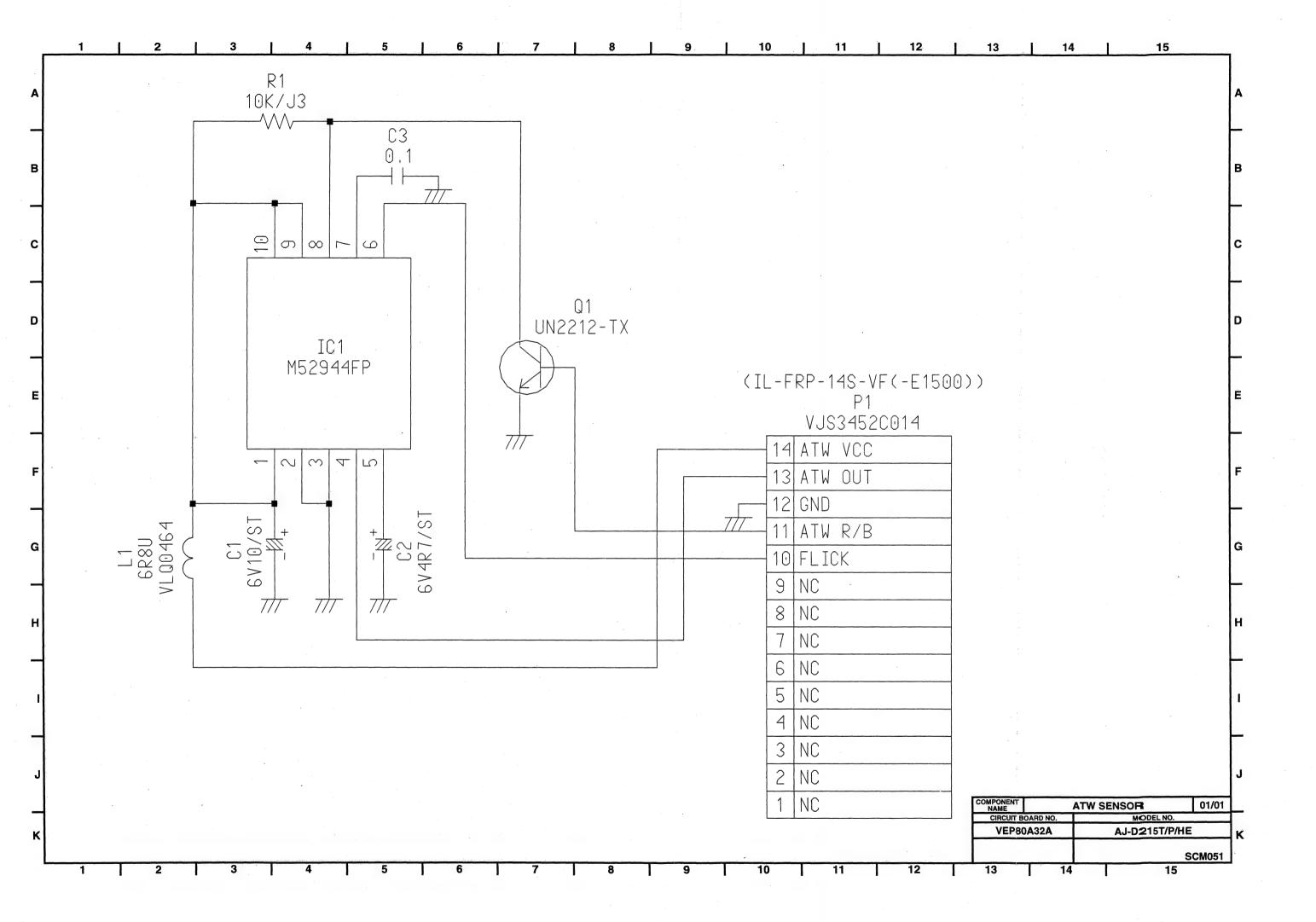


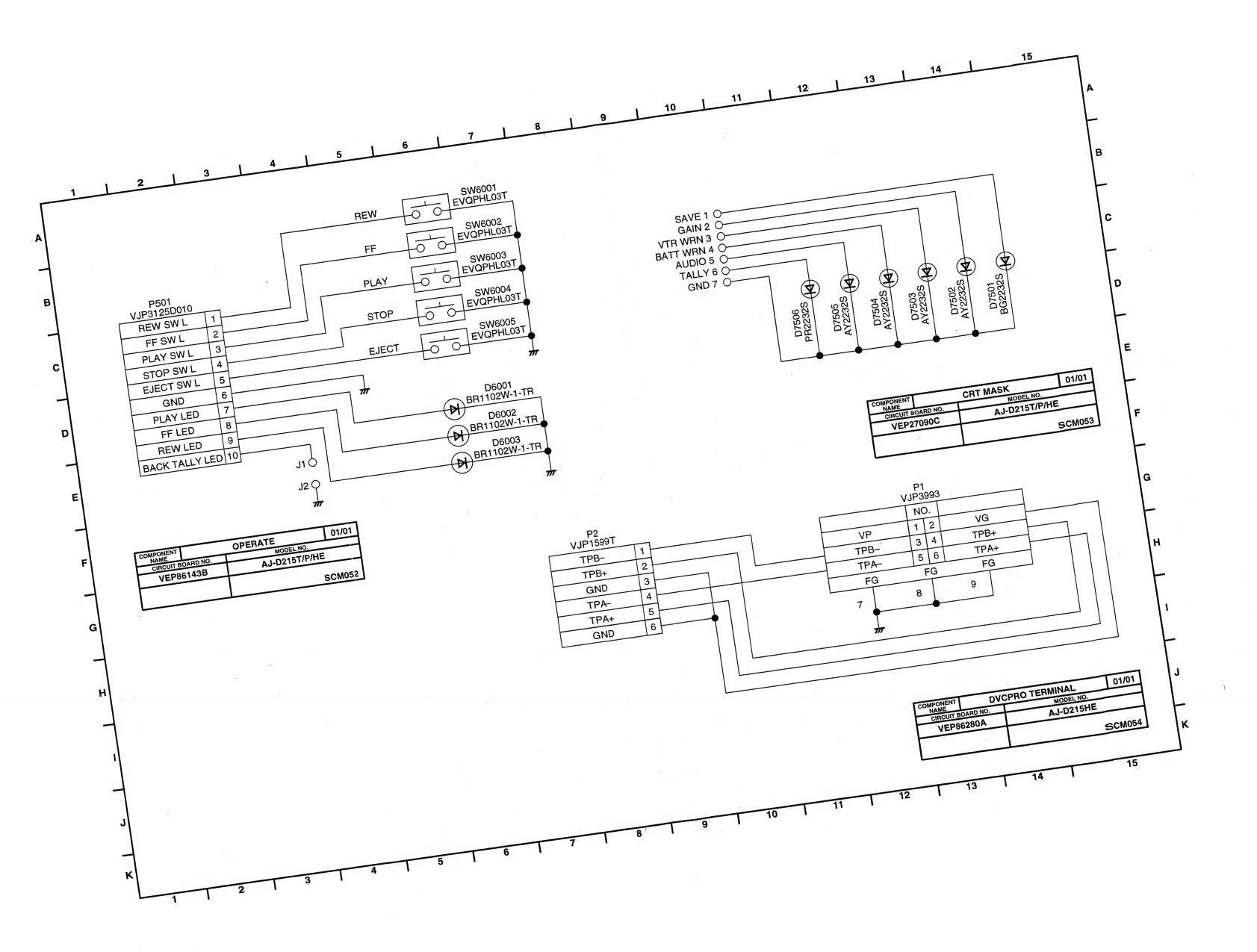


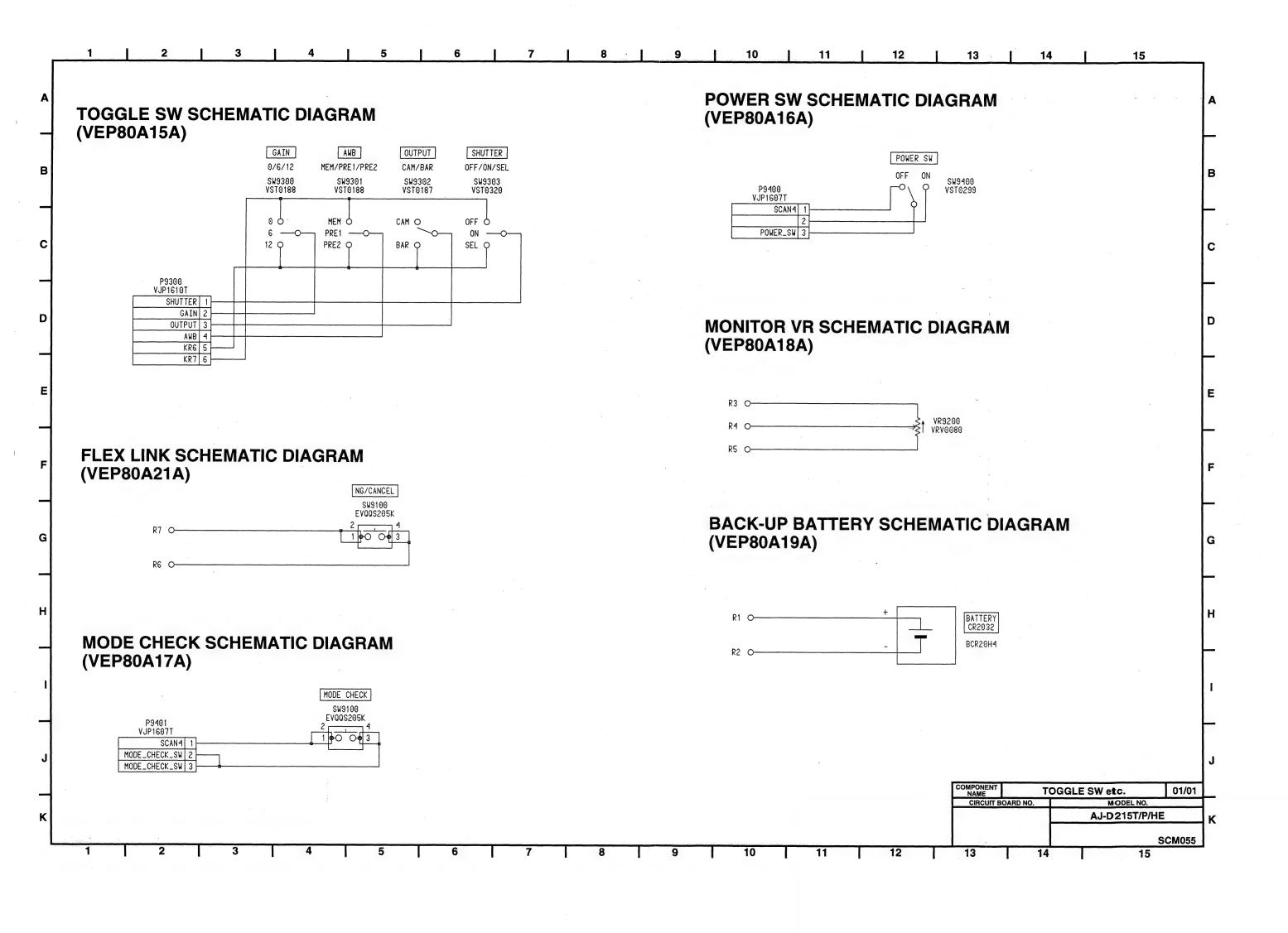


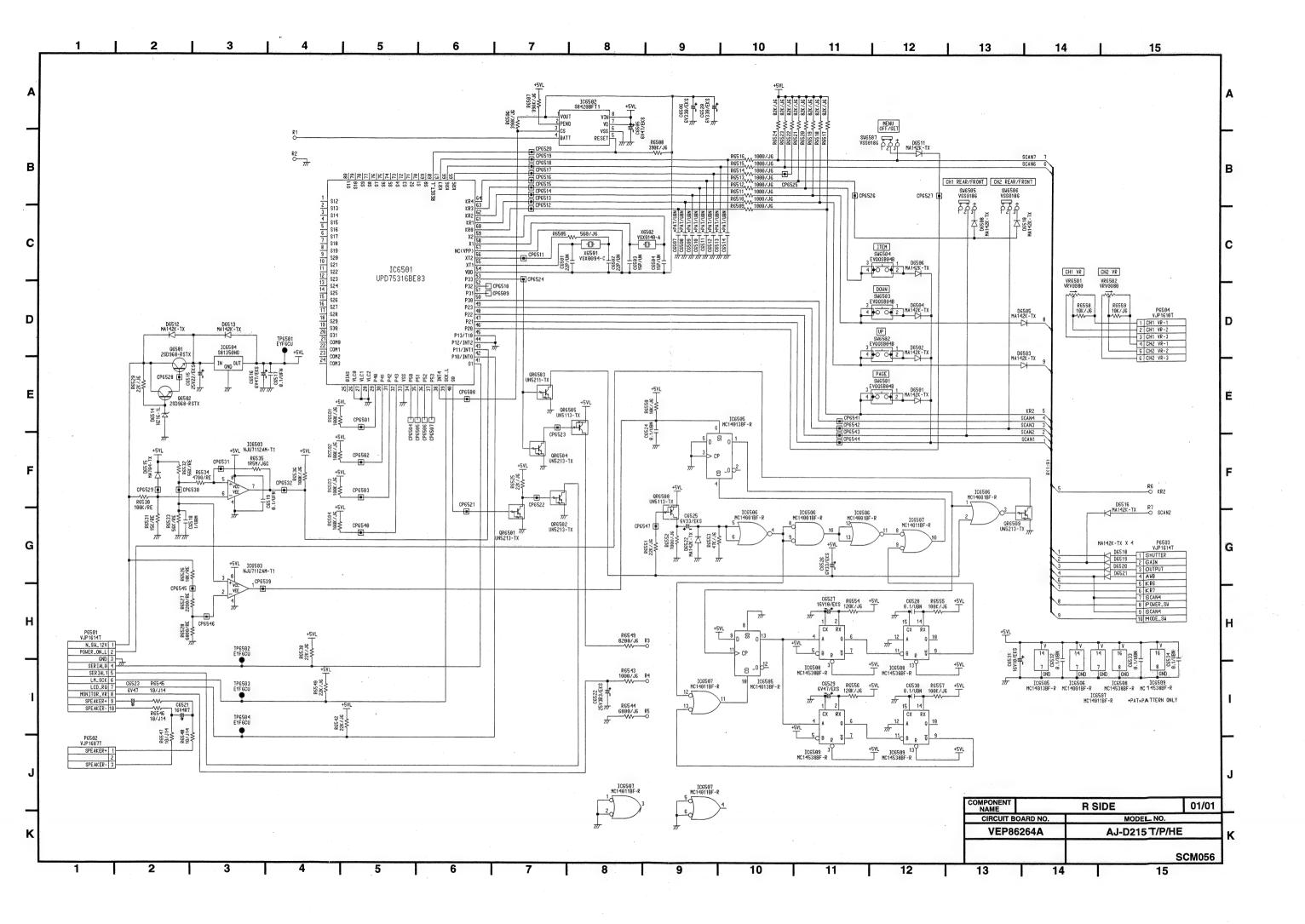


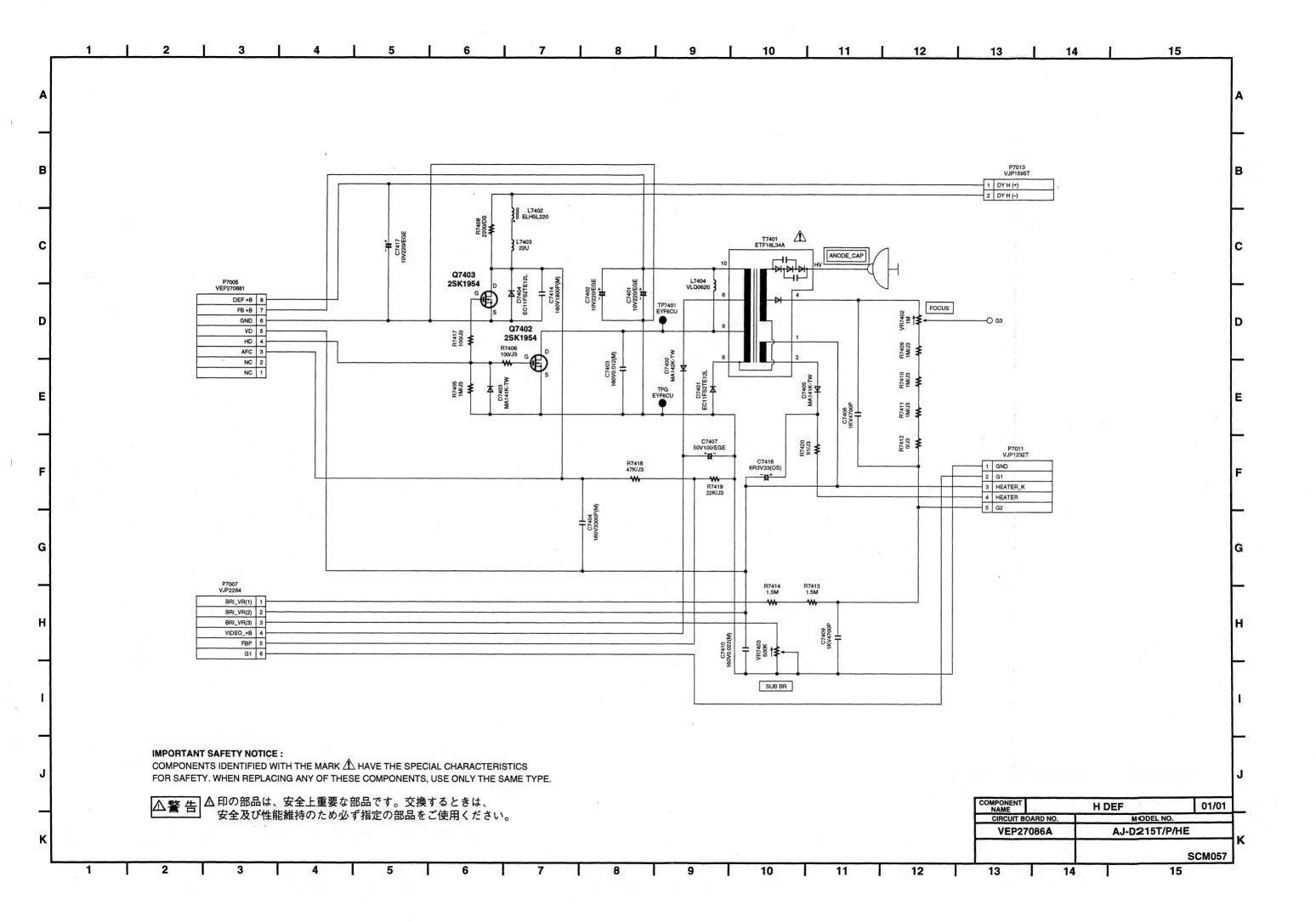


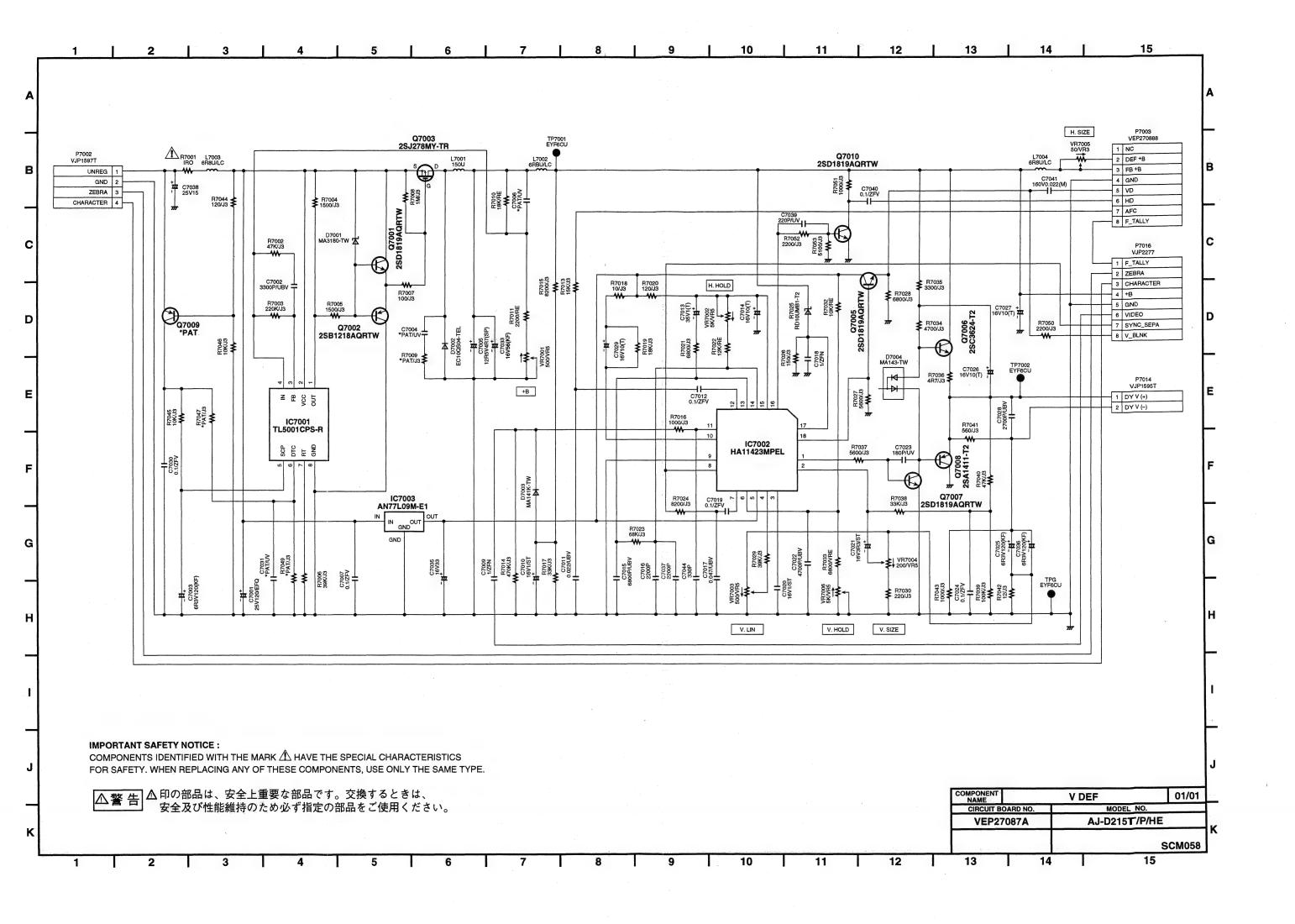


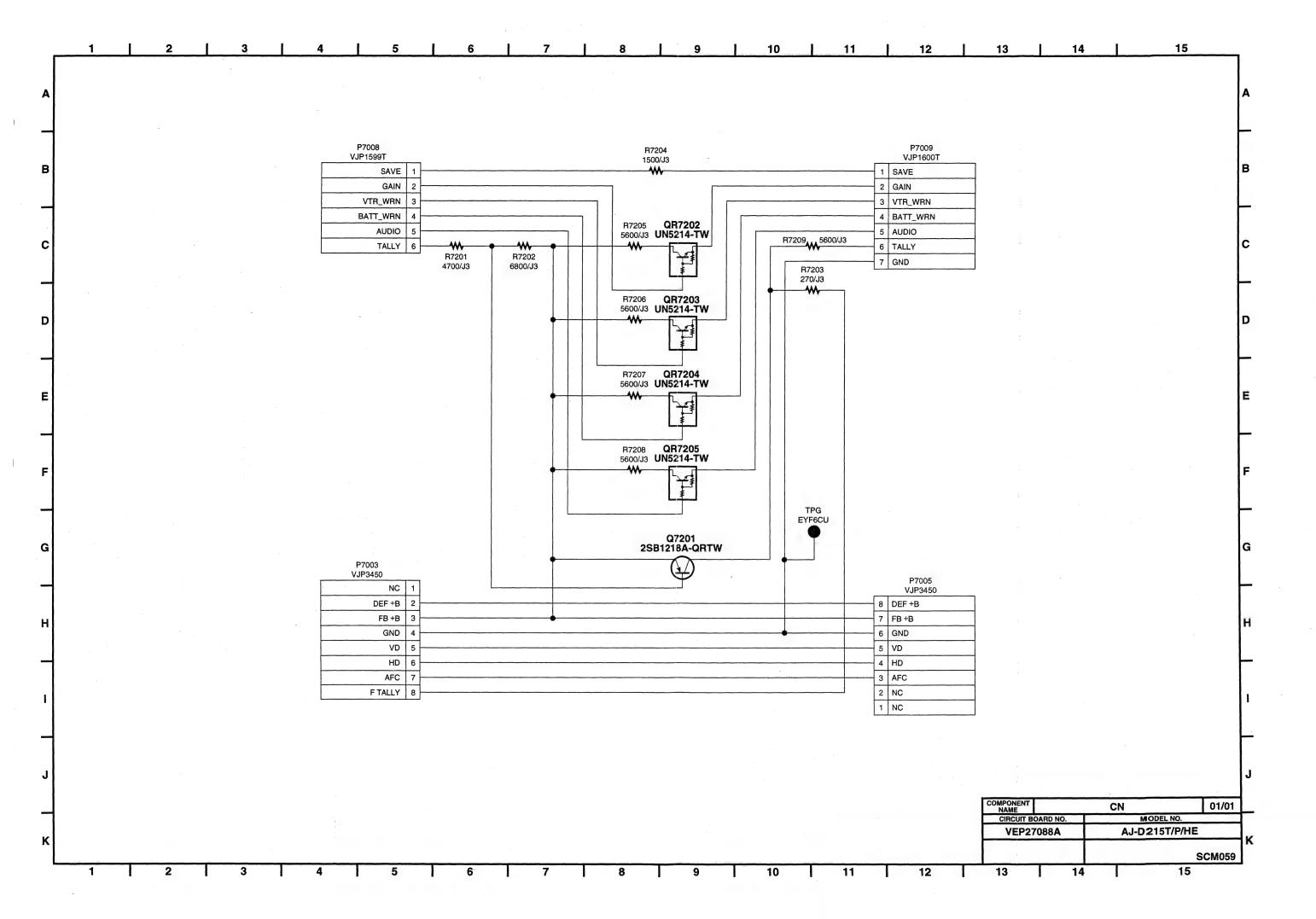


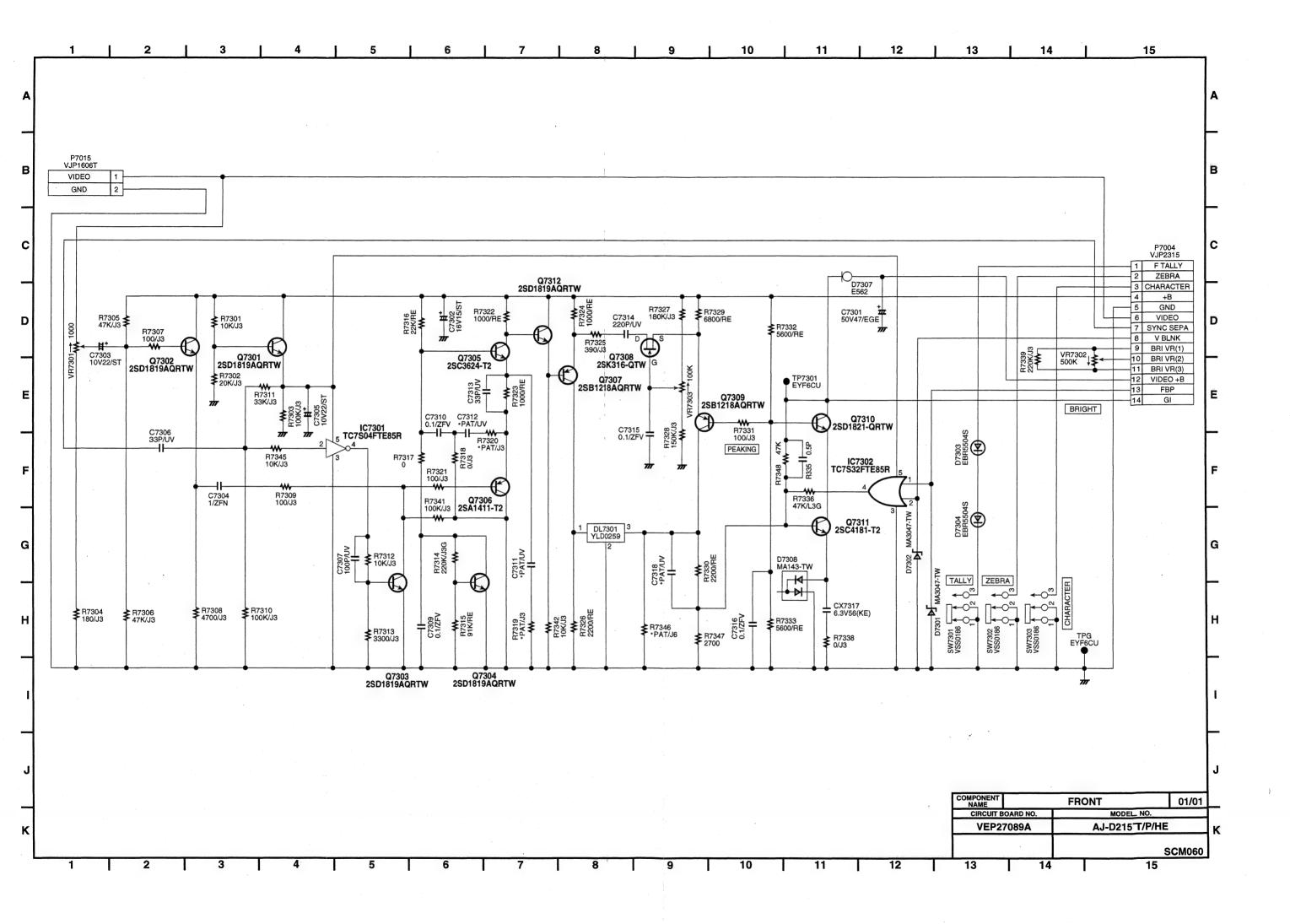


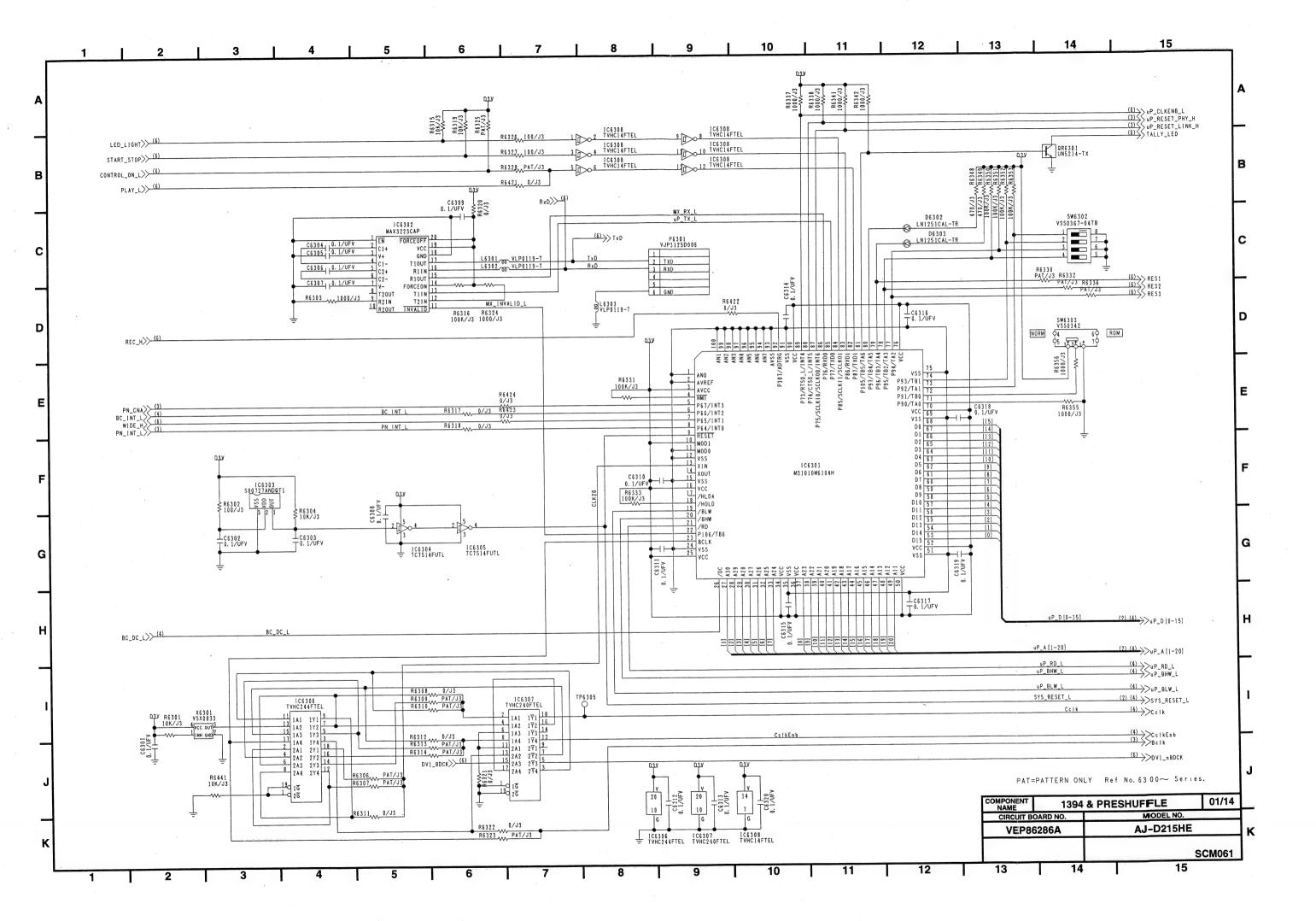


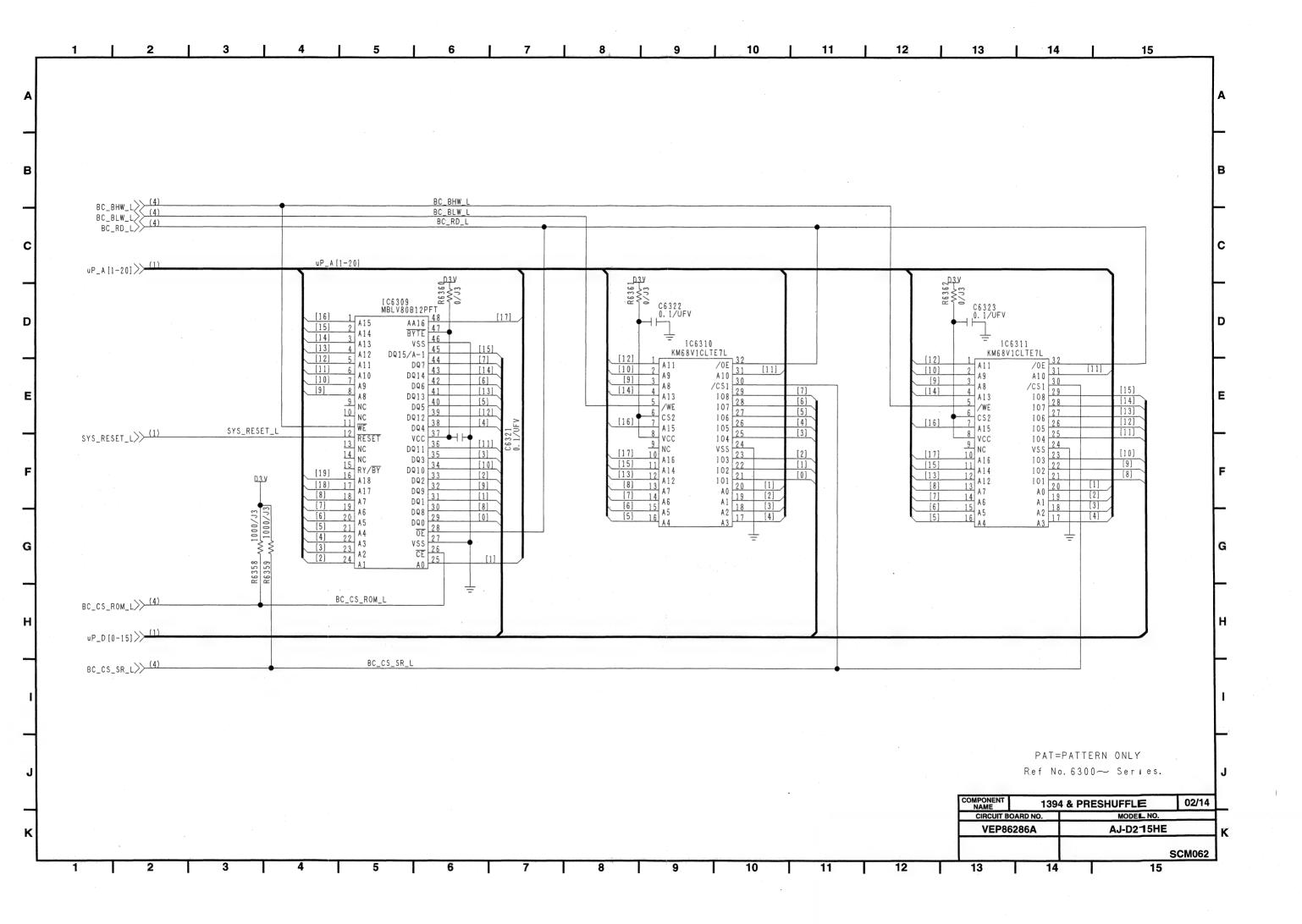


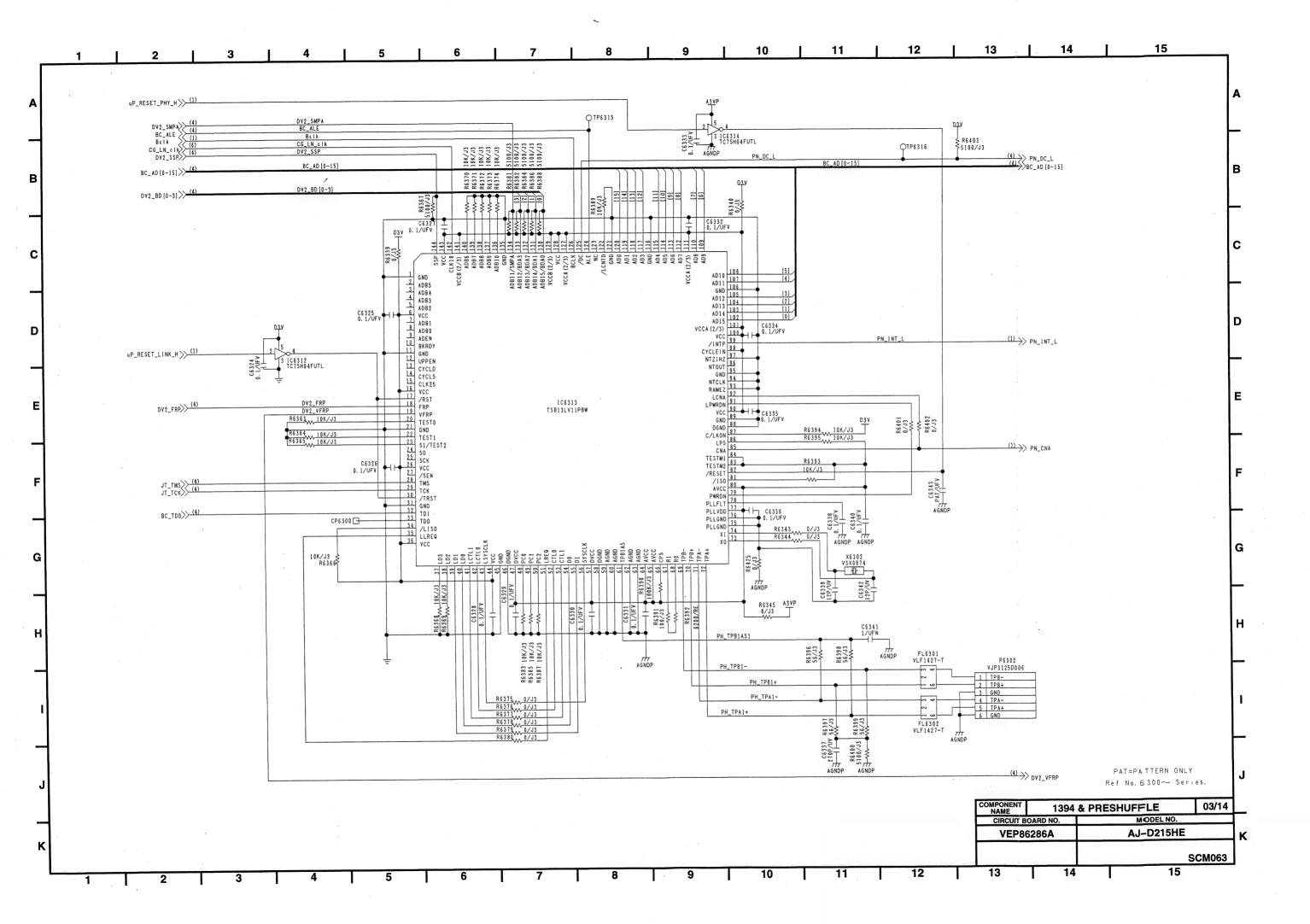


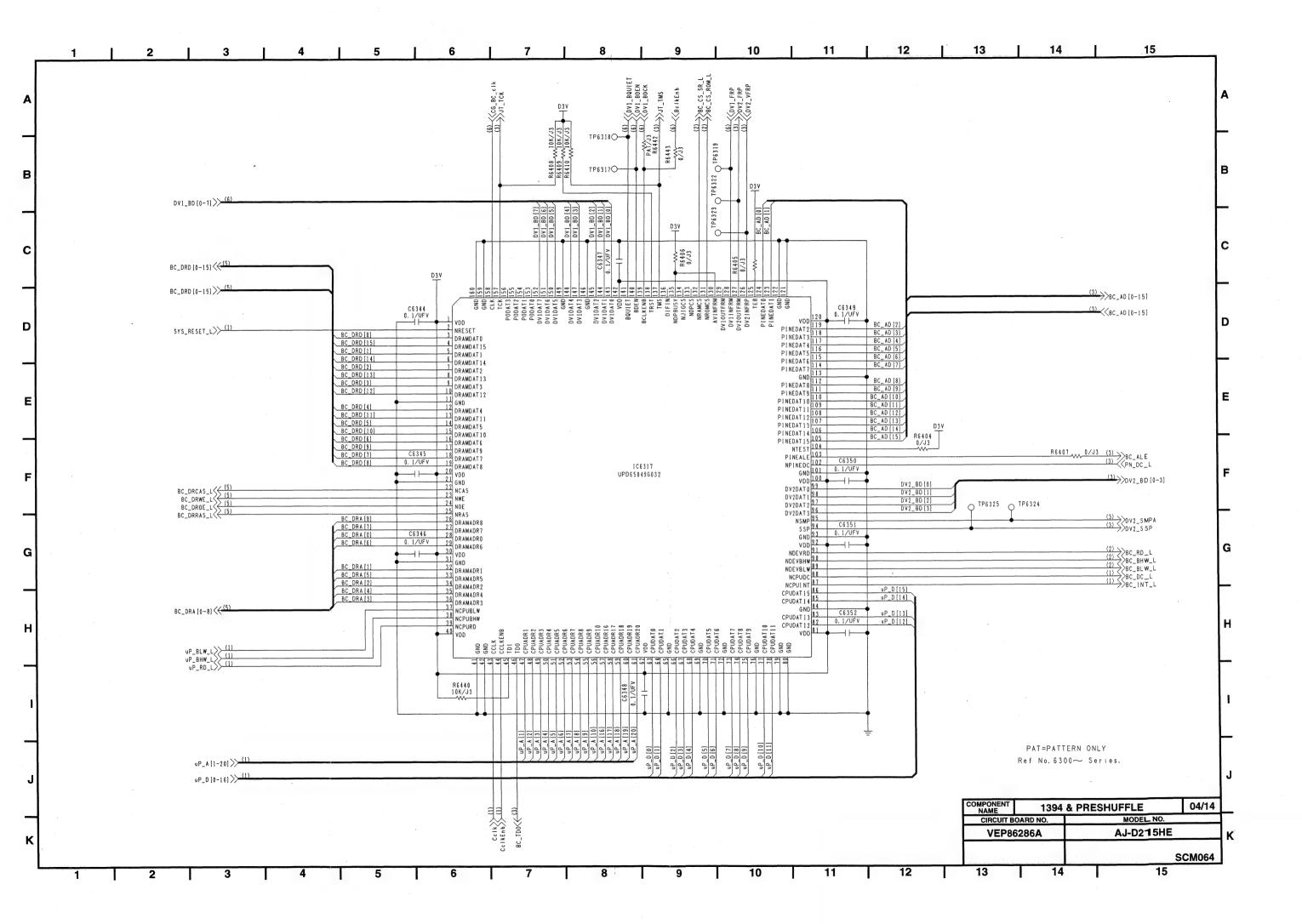


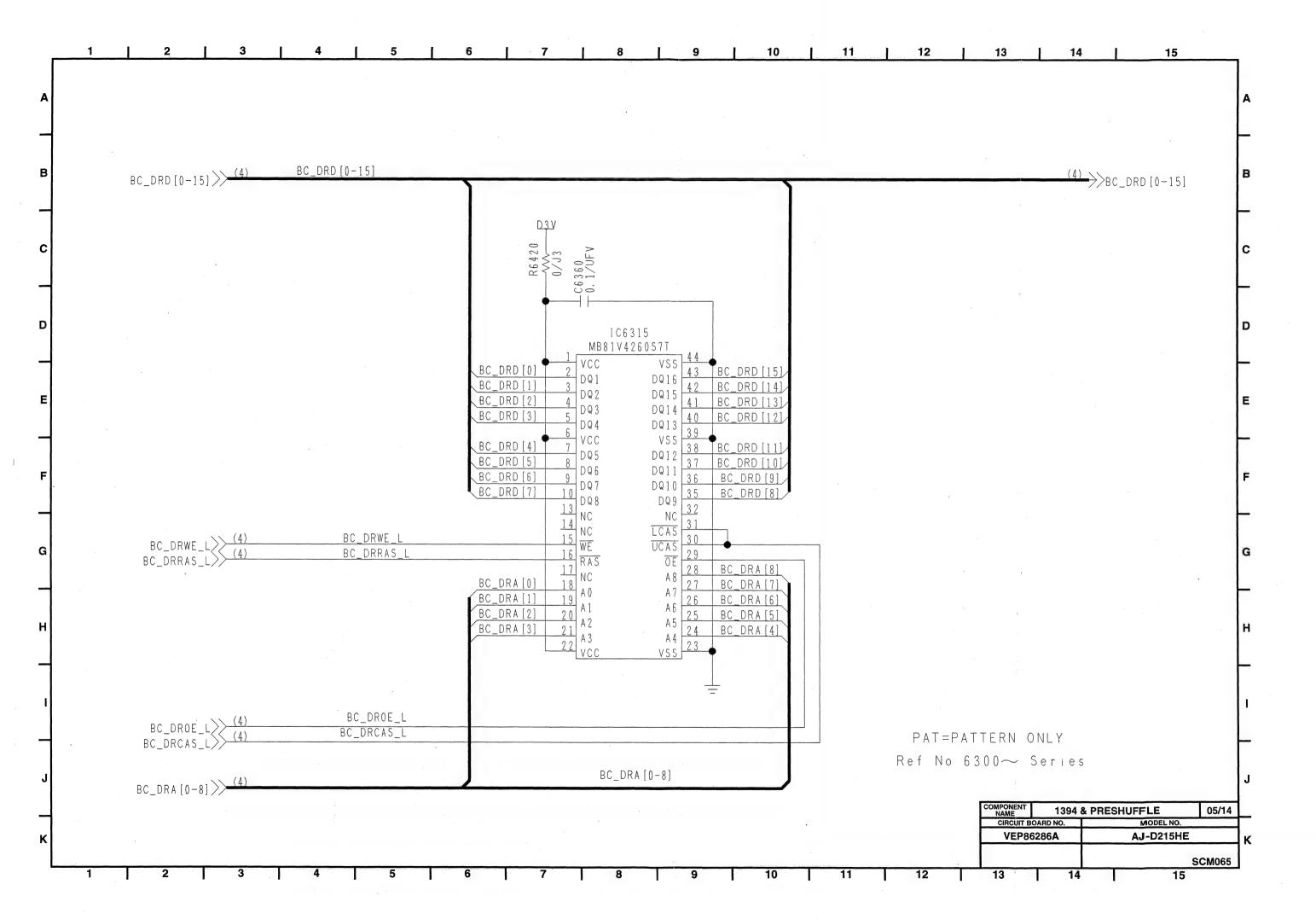


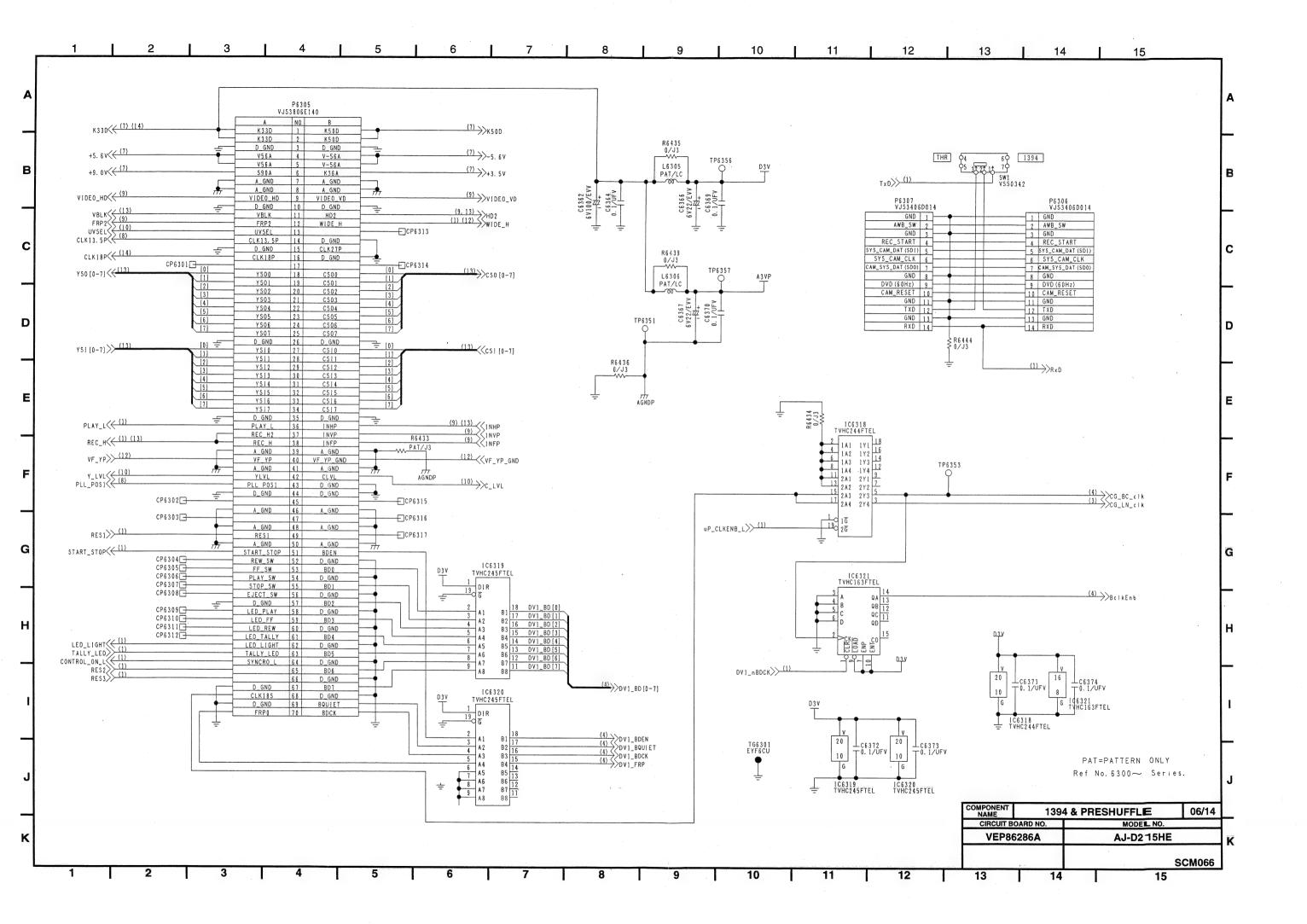


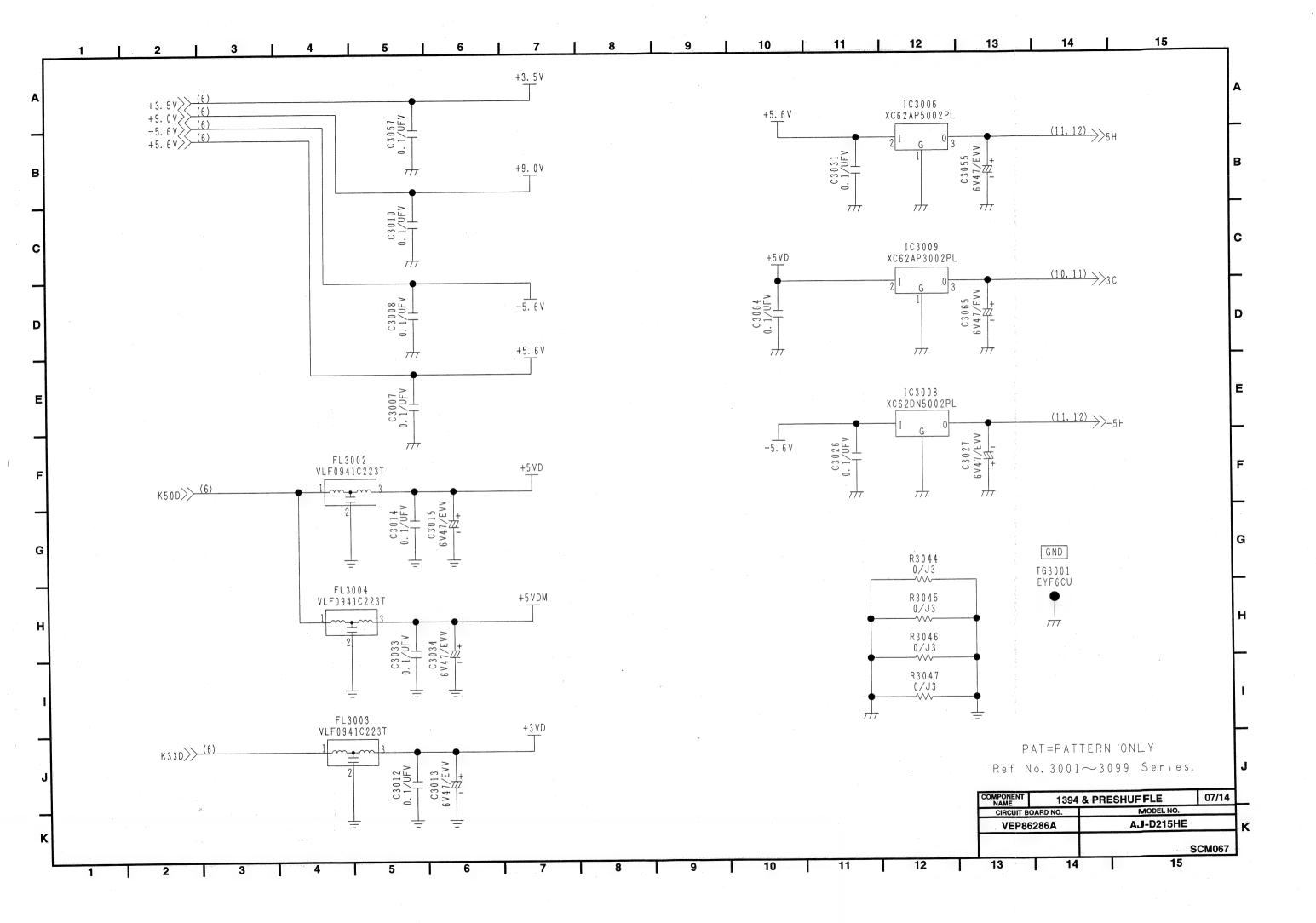


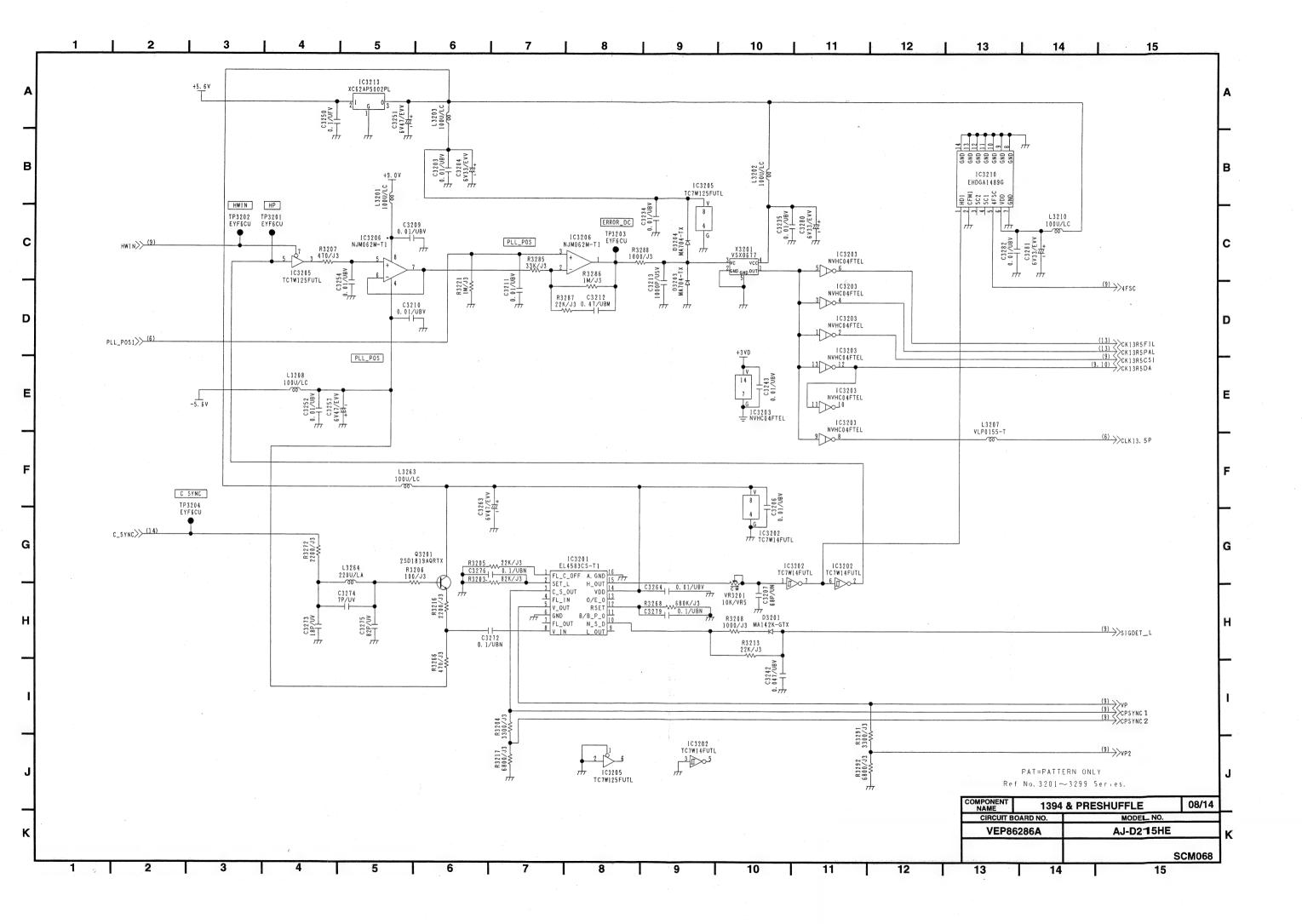


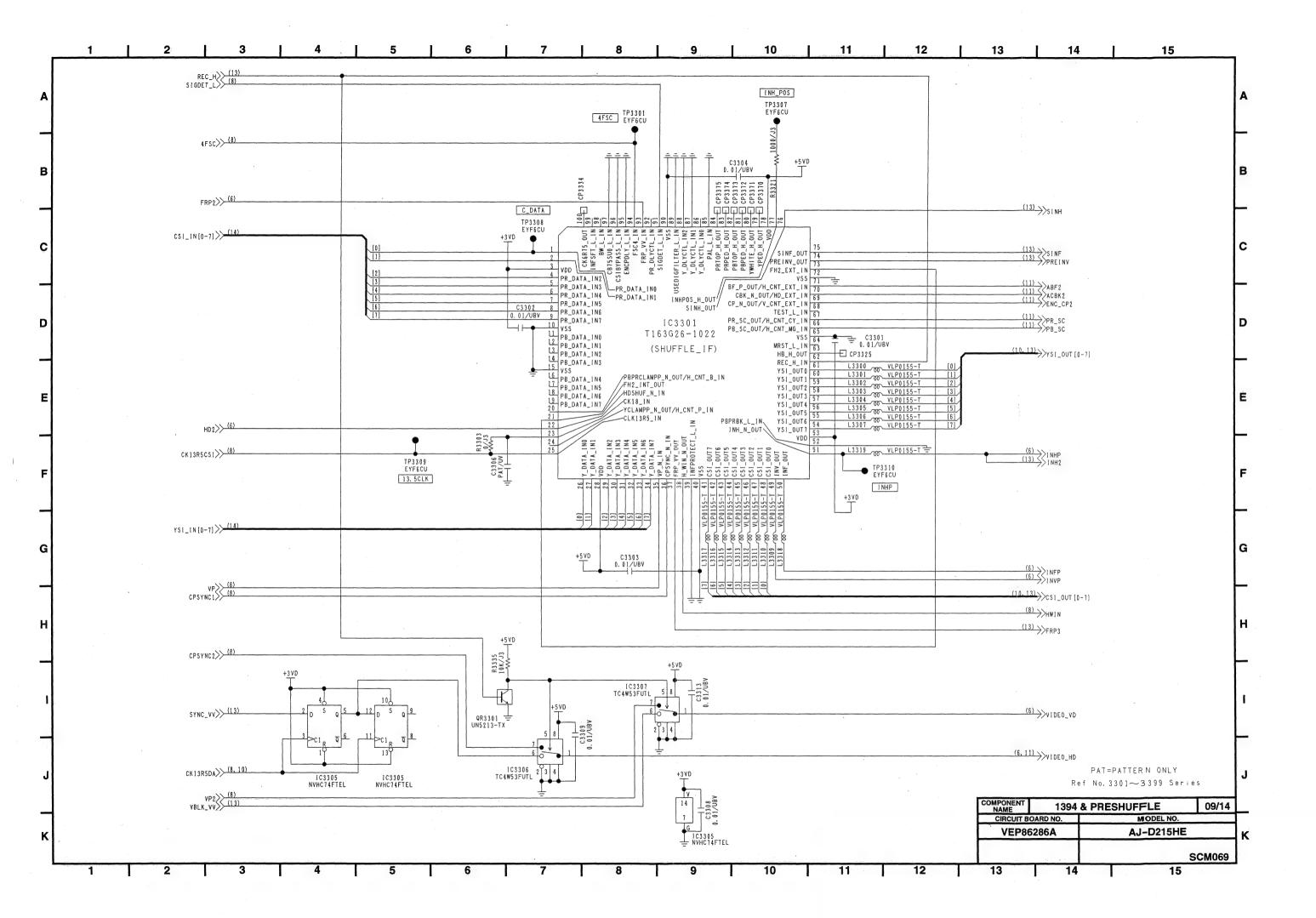


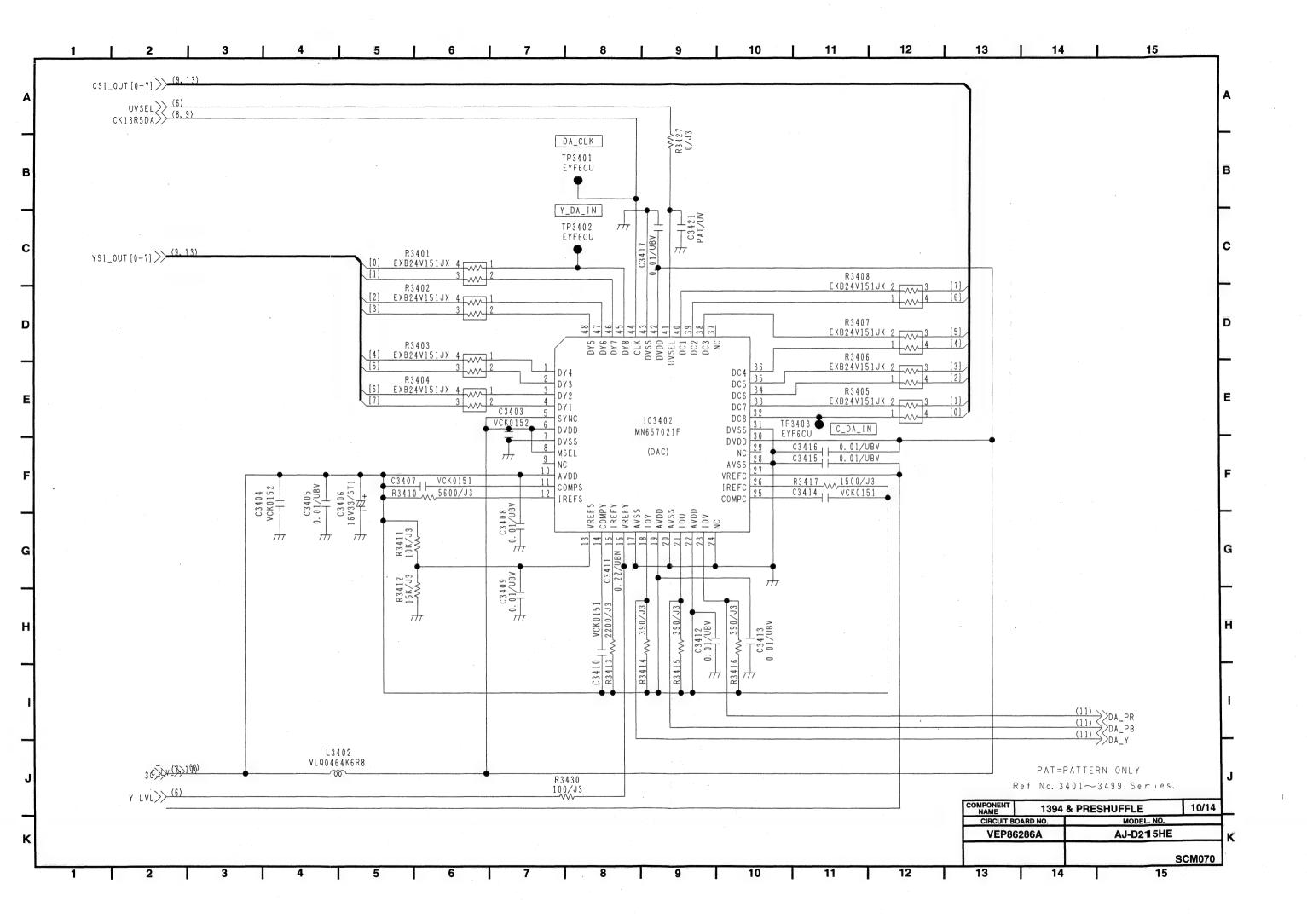


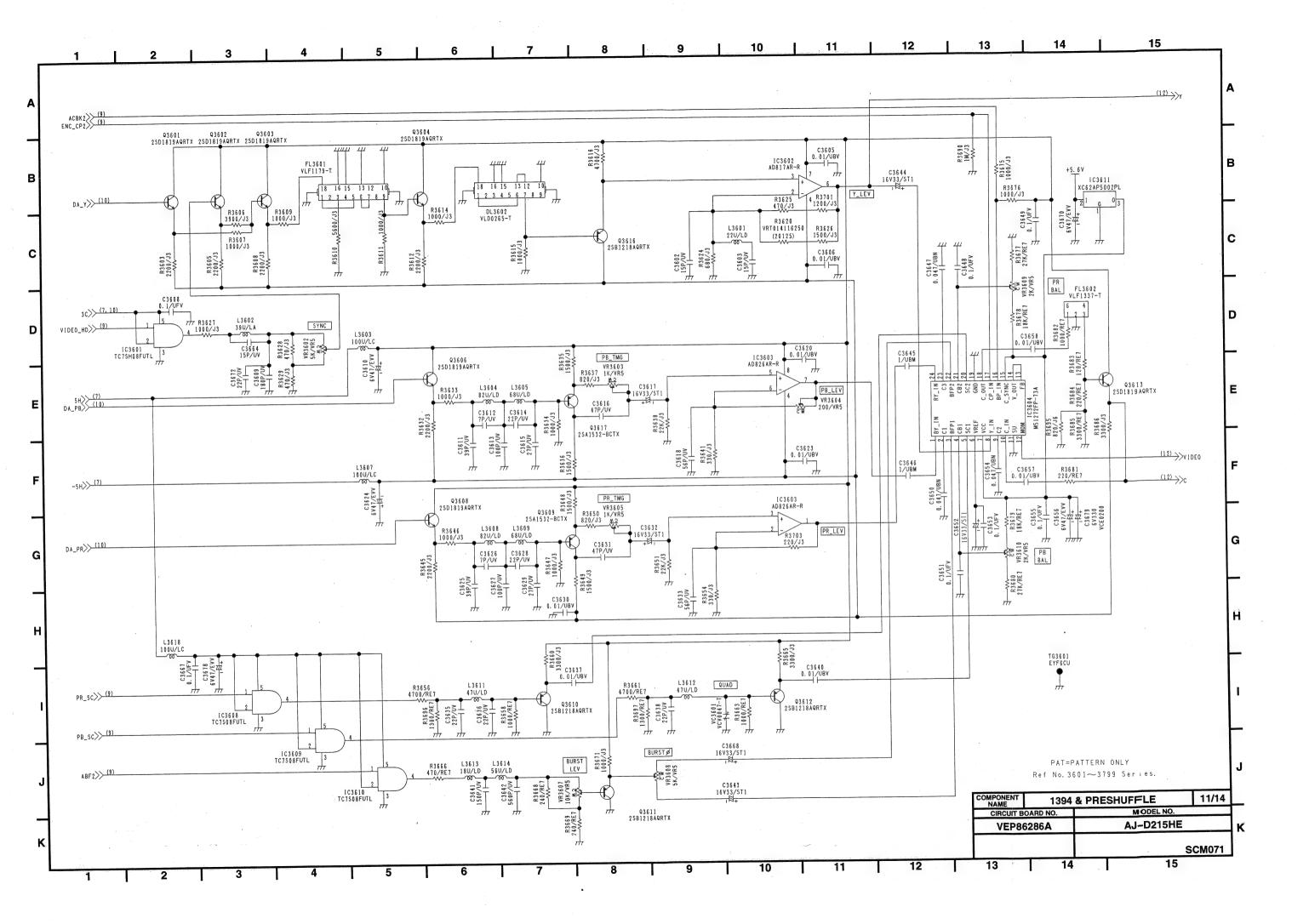


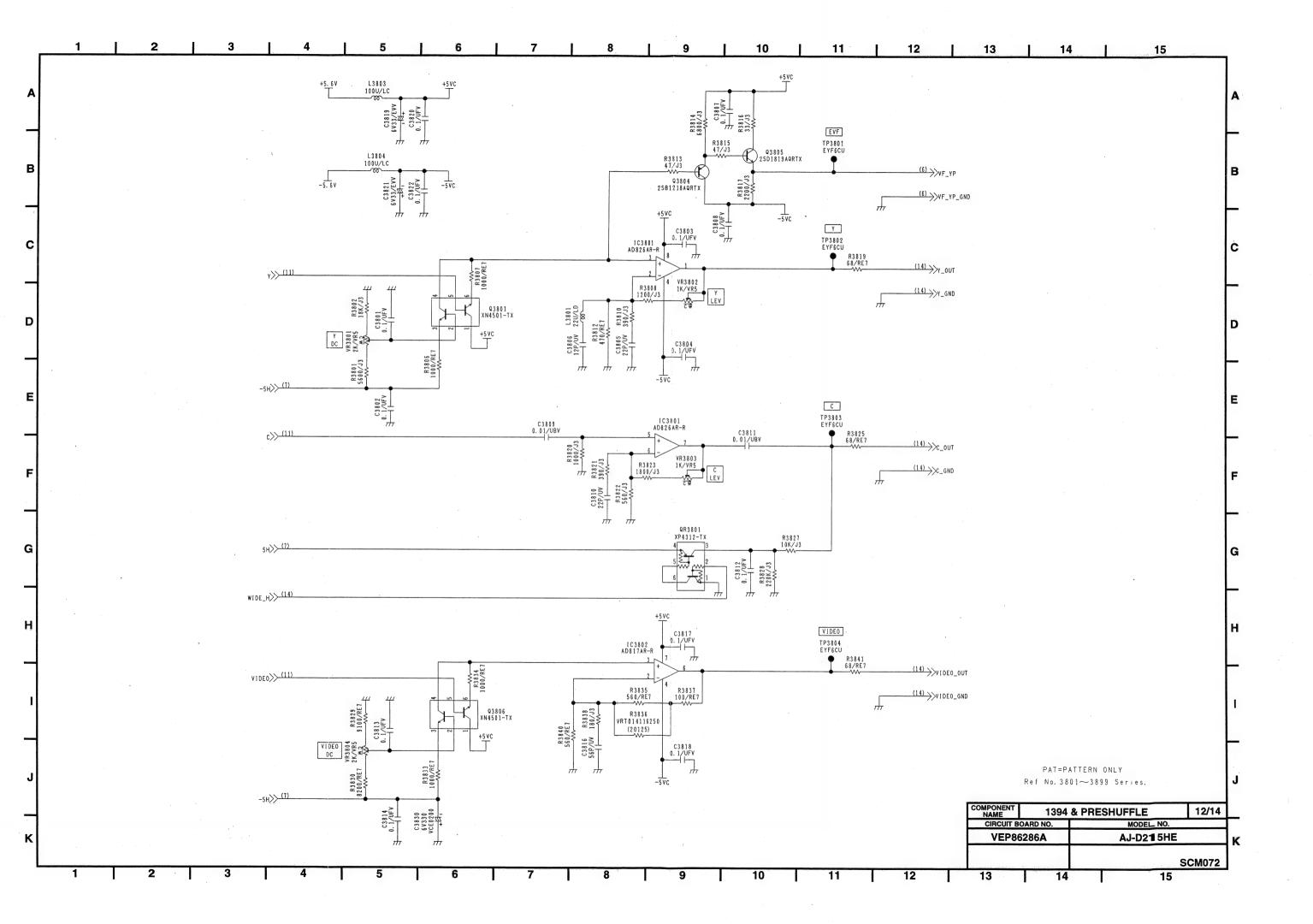


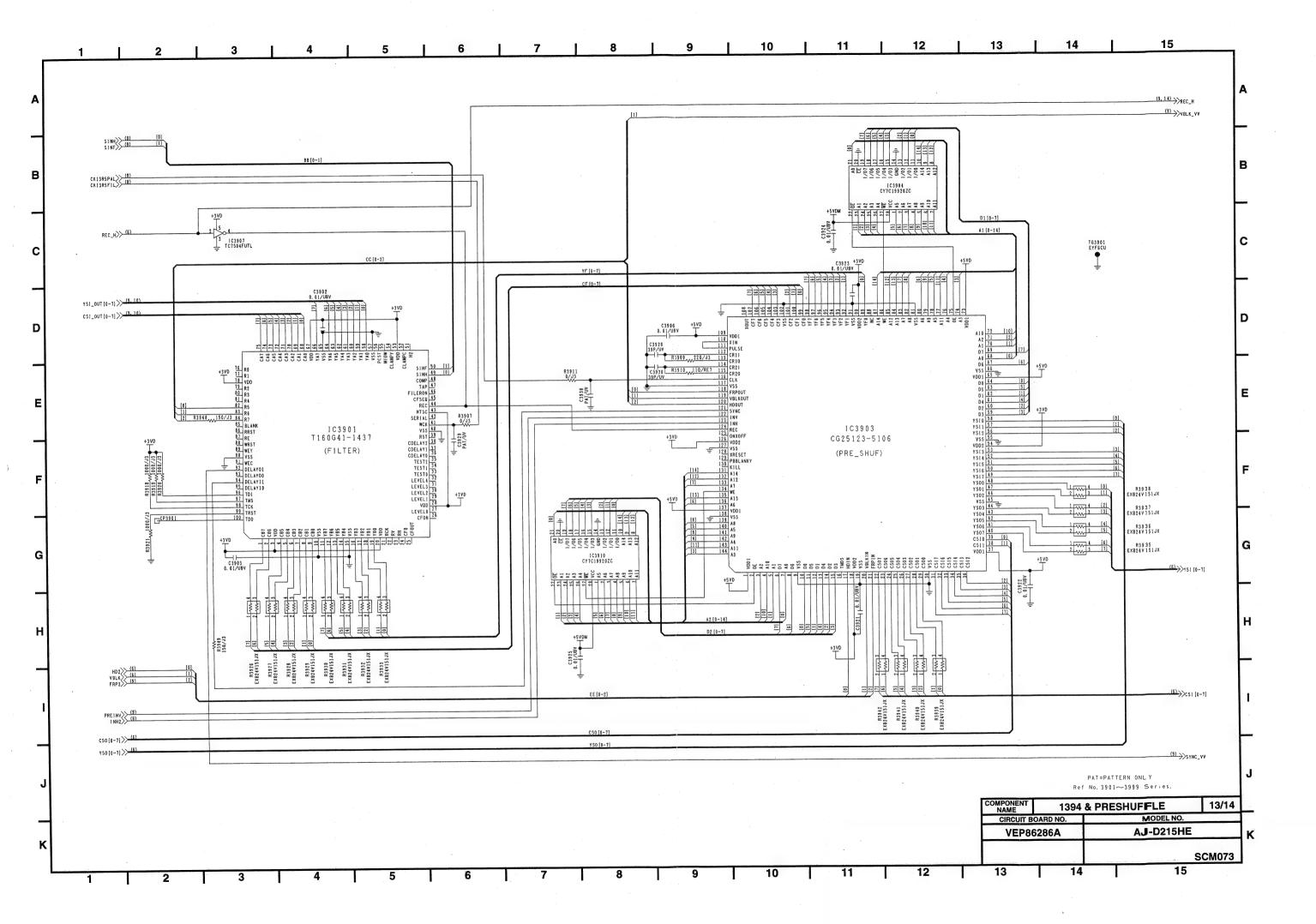


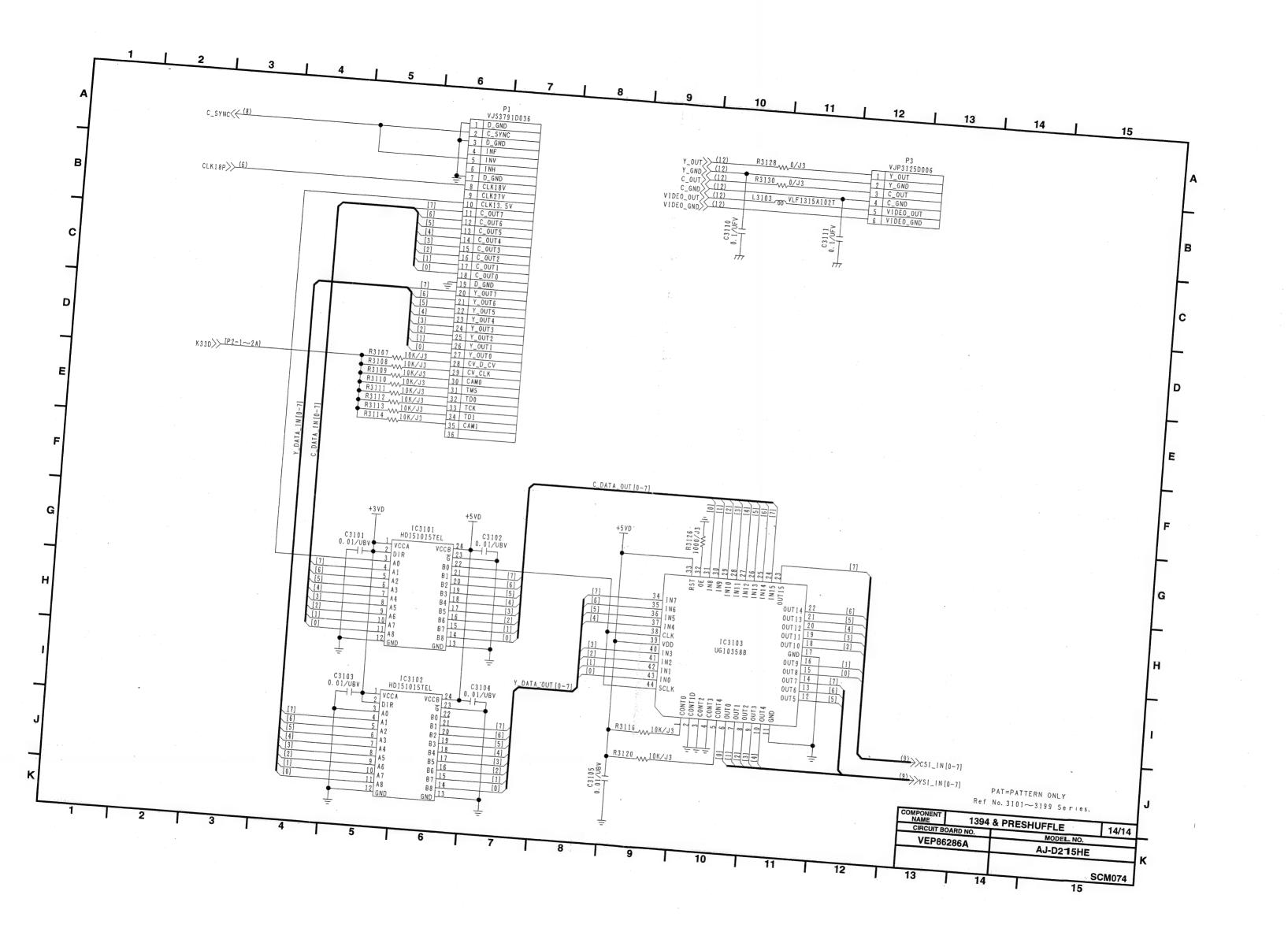




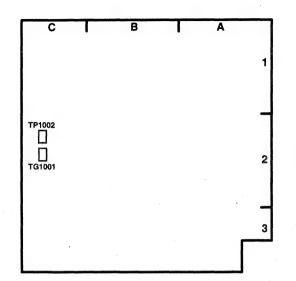




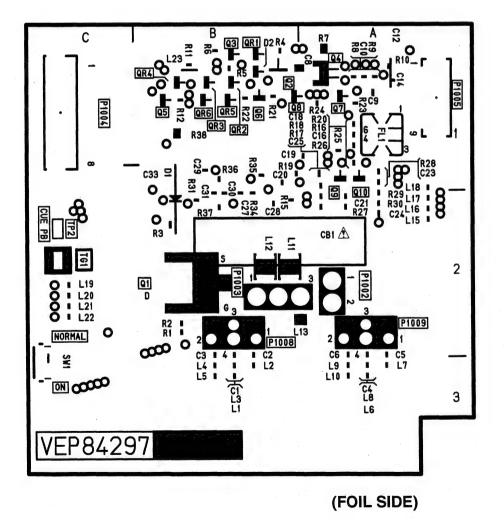


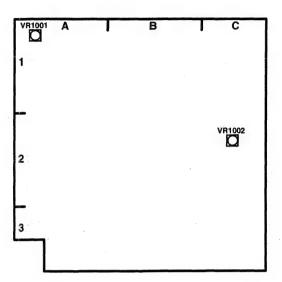


REAR JACK P.C.BOARD (FOR JAPAN ONLY: VEP84297A, FOR NTSC: VEP84297B, FOR PAL: VEP84297C)



FOIL SII	DE		
REF	LOC	REF	LOC
P1002	A2	Q1007	A1
P1003	B2	Q1008	B1
P1004	C1	Q1009	A1
P1005	A1	Q1010	A1
P1008	B2	QR1001	B1
P1009	A2	QR1002	B1
Q1001	B2	QR1003	B1
Q1002	B1	QR1004	B1
Q1003	B1	QR1005	B1
Q1004	A1	QR1006	B1
Q1005	B1	TG1001	C2
Q1006	B1	TP1002	C2

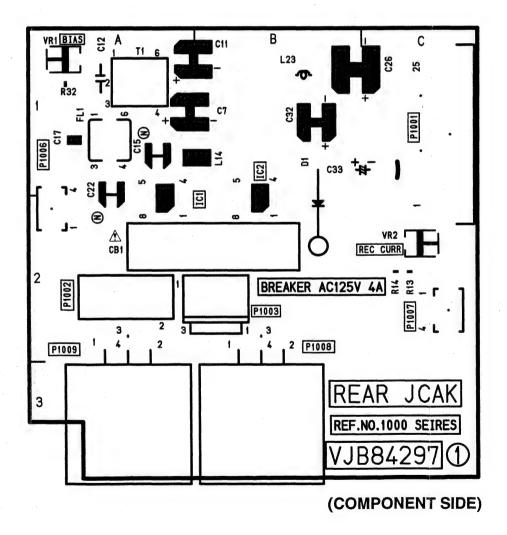


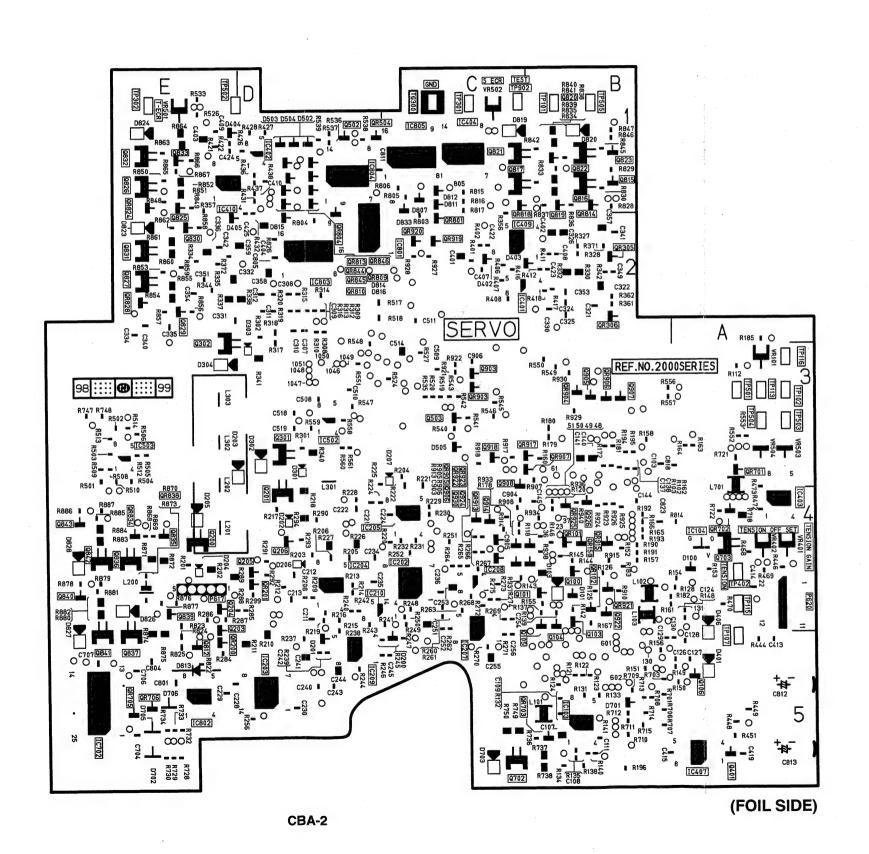


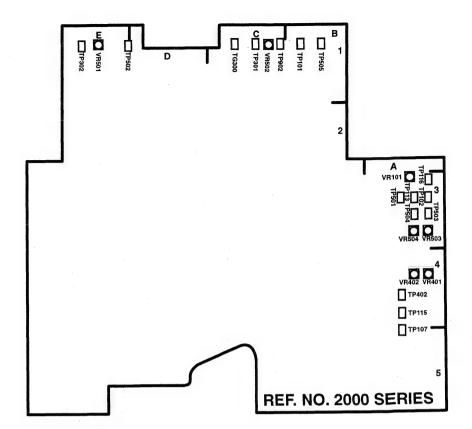
▲ 印の部品は安全上重要な部品です。 交換するときは、安全及び性能維持の ため必ず指定の部品をご使用ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL
CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

COMPONENT SIDE				
REF	LOC	REF	LOC	
IC1001	A2	P1007	C2	
IC1002	B2	VR1001	A1	
P1001	C1	VR1002	C2	
P1006	A2			

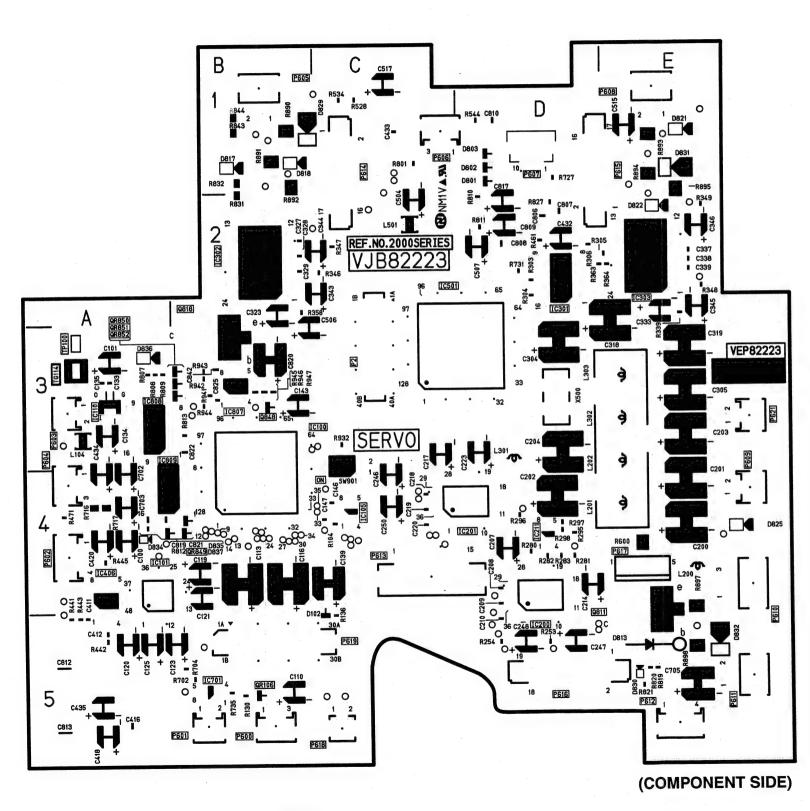


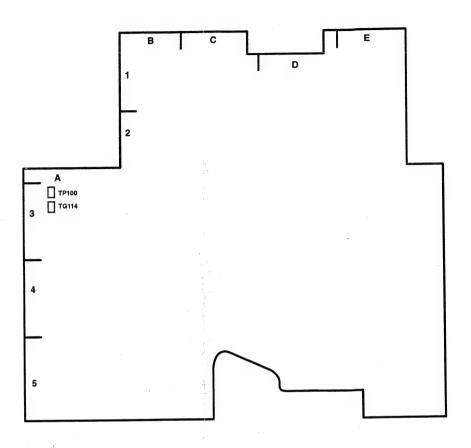




FOIL SII	DE						
REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC103	B5.	Q205	D4	Q907	B3	QR906	B3
IC202	C4	Q206	D4	Q908	C3	QR907	B3
IC203	D5	Q301	D3	Q914	C4	QR913	C4
IC204	D4	Q302	E2	Q918	C3	QR915	B4
IC205	C4	Q401	A5	Q922	B4	QR917	B3
IC207	C4	Q502	D1	Q924	C4	QR919	C2
IC208	C4	Q503	C3	Q926	B4	QR920	C2
IC209	D5	Q702	C5	Q930	C4	QR921	B4
IC210	D4	Q703	A4	QR101	B4	QR922	C4
IC401	B2	Q812	E5	QR102	B4	QR923	B4
IC402	D1	Q815	B1	QR150	B4	QR925	B4
IC403	A4	Q816	B1	QR200	E5	TG300	C1
IC404	C1	Q817	C1	QR201	D4	TP101	B1
IC407	A5	Q819	B1	QR305	B2	TP102	A3
IC409	C2	Q820	B1	QR306	B2	TP107	A4
IC410	E1	Q821	C1	QR504	D1	TP113	A3
IC502	D3	Q822	B1	QR701	A3	TP115	A4
IC503	E3	Q823	B1 7	QR702	A4	TP116	A3
IC702	E5	Q825	E1	QR703	B5	TP301	C1
IC801	D2	Q826	E1	QR705	E5	TP302	E1
IC802	E5	Q827	E2	QR801	C2	TP402	A4
IC803	D2	Q829	E2	QR804	D1	TP501	A3
IC804	D1	Q830	E2	QR809	D1	TP502	D1
IC805	C1	Q831	E2	QR810	D1	TP503	A3
IC104	A4	Q832	E1	QR813	D1	TP504	A3
P617	E4	Q833	E1	QR814	B1	TP505	B1
P620	A4	Q835	E4	QR818	C1	TP902	C1
Q100	B4	Q836	E4	QR824	E1	VR101	A3
Q101	B4	Q837	E4	QR828	E2	VR401	A4
Q103	B4	Q839	E4	QR834	E4	VR402	A4
Q104	B4	Q840	E4	QR838	E4	VR501	E1
Q105	B4	Q841	E4	QR844	D1	VR502	C1
Q106	A5	Q842	E4	QR845	D1	VR503	A3
Q200	E4	Q843	E4	QR846	D1	VR504	A3
Q201	D3	Q903	C3	QR903	C3		
Q203	E4	Q905	B3	QR904	B3		
Q204	E4	Q906	C4	QR905	C4		

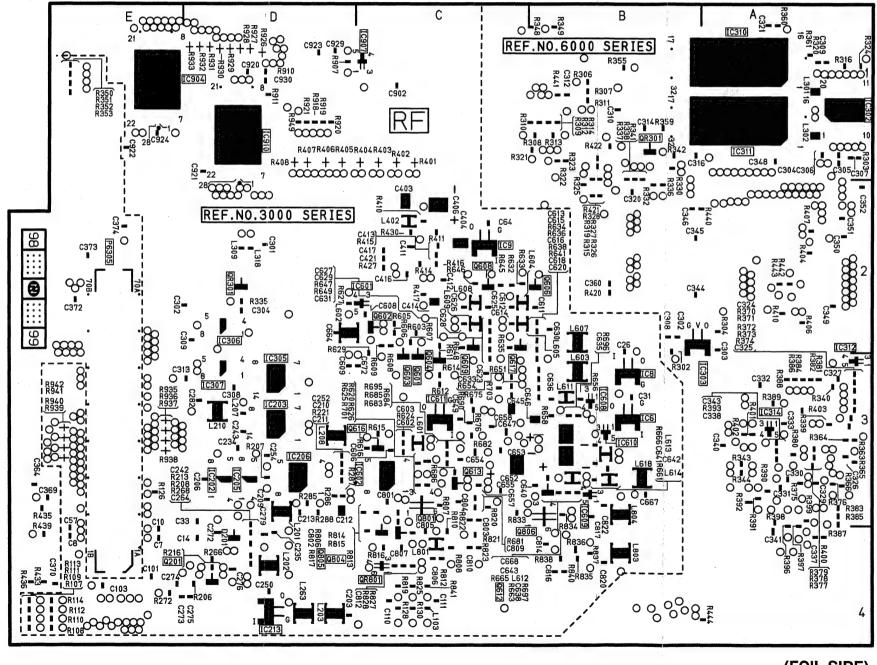
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COMPONENT SIDE				
REF	LOC	REF	LOC	
IC100	B3	P612	E5	
IC101	A4	P613	C4	
IC105	C4	P614	C1	
IC200	D4	P615	D1	
IC201	D4	P616	D5	
IC211	D4	P618	C5	
IC301	- D2	P619	B5	
IC302	B2	Q811	E4	
IC303	E2	Q818	B3	
IC406	A4	Q848	B3	
IC501	D3	QR106	B5	
IC701	B5	QR849	A4	
IC807	B3	QR850	B3	
IC808	A3	QR851	B3	
IC809	A4	QR852	B3	
P609	E4	TG114	A3	
P610	E4	TP100	A3	
P611	E5			
	F			

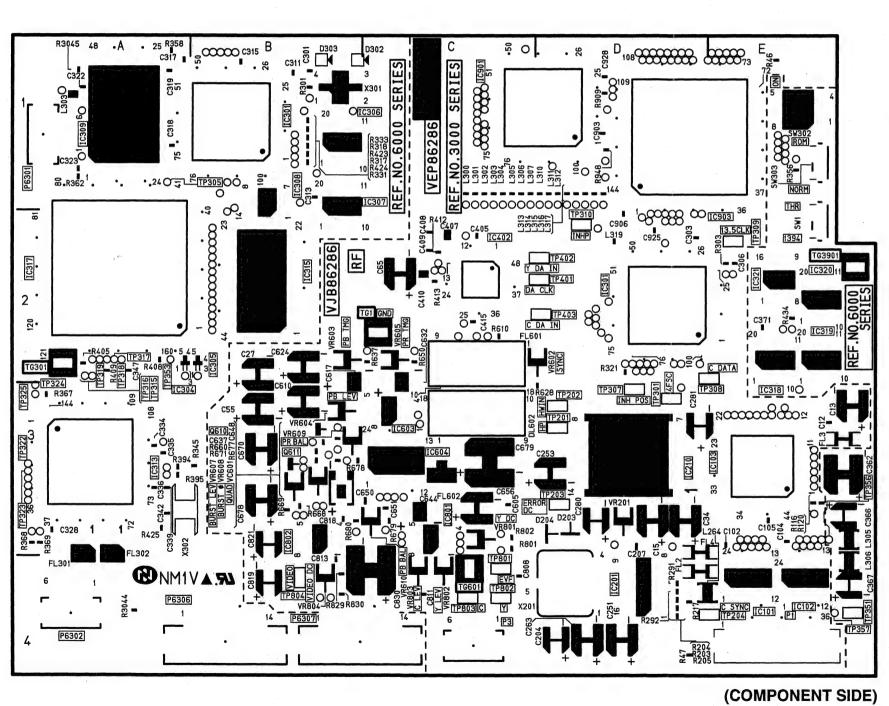
1394 & PRE-SHUFFLE P.C.BOARD (AJ-D215HE ONLY: VEP86286A)

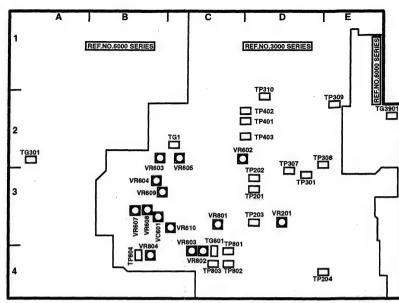


FOIL SIDE				
REF	LOC	REC	LOC	
IC3006	B3	IC6311	A1	
IC3008	B3	IC6312	A3	
IC3009	C2	IC6314	A3	
IC3202	D3	P6305	E3	
IC3203	D3	Q3201	D4	
IC3205	D3	Q3601	C3	
IC3206	D3	Q3602	C2	
IC3213	D4	Q3603	C3	
IC3305	D3	Q3604	C3	
IC3306	D2	Q3606	B2	
IC3307	D3	Q3608	C2	
IC3601	C2	Q3609	C2	
IC3602	C3	Q3612	B3	
IC3608	В3	Q3613	C3	
IC3609	B3	Q3616	C3	
IC3610	B3	Q3617	C2	
IC3611	C3	Q3801	C3	
IC3904	E1	Q3804	C4	
IC3907	C1	Q3805	C4	
IC3910	D1.	Q3806	B3	
IC6302	A1	QR3301	D2	
IC6303	B2	QR3801	C4	
IC6310	A1	QR6301	B1	

(FOIL SIDE)

CBA-4

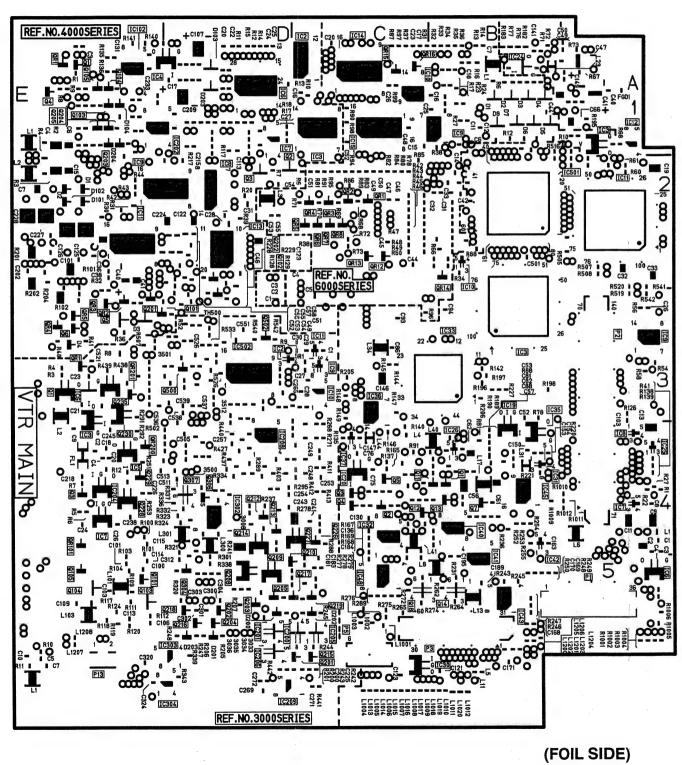




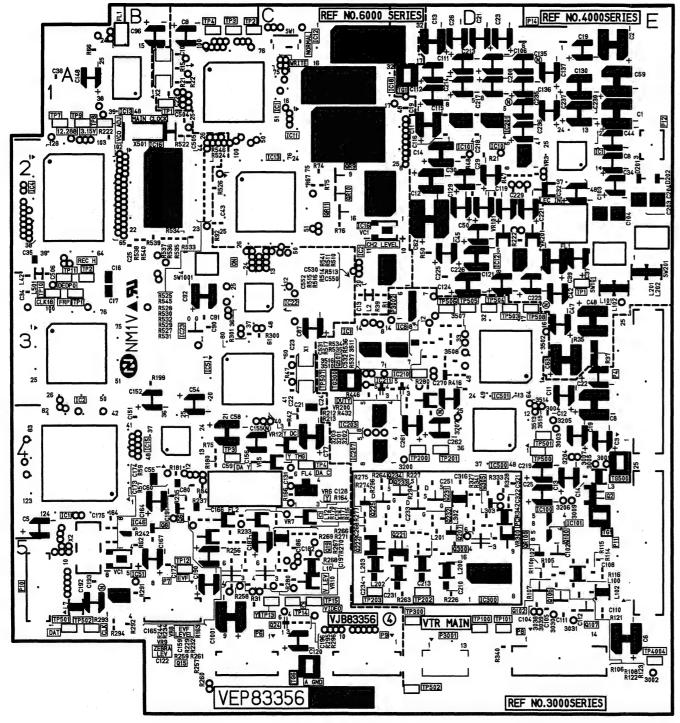
COMPONENT SIDE			
REF	LOC	REF	LOC
IC3101	E4	TG3001	C2
IC3102	E4	TG3601	C4
IC3103	E3	TG3901	E2
IC3201	D4	TG6301	A2
IC3210	D3	TP3201	D3
IC3301	D2	TP3202	D3
IC3402	C2	TP3203	D3
IC3603	C3	TP3204	E4
IC3604	C3 C3 C3	TP3301	D3
IC3801	C3	TP3307	D3
IC3802	B3	TP3308	E2
IC3901	D1	TP3309	E2
IC3903	D1	TP3310	D2
IC6301	B1	TP3401	D2
IC6304	A2	TP3402	D2
IC6305	B2	TP3403	D2
IC6306	B1	TP3801	C4
IC6307	B1	TP3802	C4
IC6308	B1	TP3803	C4
IC6309	A1	TP3804	B4
IC6313	A3	VC3601	B3
IC6315	B2	VR3201	D3
IC6317	A2	VR3602	D2
IC6318	E2	VR3603	B2
IC6319	E2	VR3604	В3
IC6320	E2	VR3605	C2
IC6321	E2	VR3607	B3
P3001	E4	VR3608	B3
P3003	C4	VR3609	B3
P6301	A1	VR3610	C3
P6302	A4	VR3801	C3
P6306	B4	VR3802	C4
P6307	B4	VR3803	C4
Q3610	В3	VR3804	B4
Q3611	B3		

CBA-5

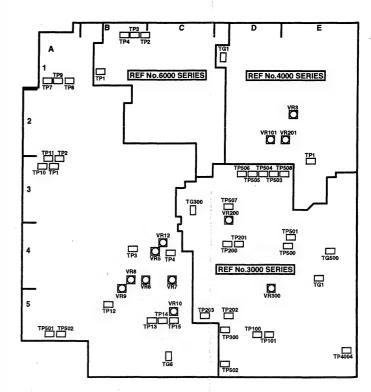
VTR MAIN P.C.BOARD (FOR NTSC:VEP83356D, FOR PAL:VEP83356E)



FOIL SII	DE		
REF	LOC	REF	LOC
IC3	B3	Q14	B5
IC6	A5	Q18	C5
IC7	A4	Q3001	E3
IC8	A4	Q3003	E4
IC9	A3	Q3101	E5
IC10	B2	Q3103	E5
IC11	A2	Q3104	E5
IC12 IC19	A1	Q3105	E5
IC19	B4	Q3201	D5
IC20	C4	Q3202	D5
IC24	B1	Q3203	D5
IC25	A4	Q3204	D5
IC26	B4	Q3205	D5
IC30	C5	Q3208	D5
IC31	B4	Q3209	D5
IC32	C4	Q3210	D5
IC33 IC36	B3	Q3212	D4
	C3	Q3213	D4
IC37	C4	Q3214	D4
IC40	B4	Q3215	C5
IC41	B5	Q3216	D5
IC42	B4	Q3217	D5
IC42	B5	Q3218	D5
	B4		
IC45		Q3219	C5
IC48	C5	Q3226	C4
IC501	B2	Q3227	D4
IC3002	D3	Q3228	E4
IC3003	E4	Q3229	E4
IC3005	E4	Q3230	E3
IC3006	E3	Q3235	E3
IC3007	E4	Q3304	D5
			D4
IC3009	C3 .	Q3306	
IC3010	C3	Q3307	D4
IC3011	C3:	Q3500	D3
IC3200	D5	Q3502	D3
IC3201	D5	Q4001	E1
IC3204	E4	Q4002	D2 ·
IC3205	C5	Q4003	D2
IC3206	D5	Q4004	E1
IC3208	D4	Q4005	E3
IC3209	D5	Q4006	E3
IC3302	D4	Q4101	E3
IC3303	D5	Q4102	D3
IC3304	E5	Q4103	E1
IC3502	D3	Q4104	E1
IC4002	C1	Q4105	E1
IC4003	C1 C1	Q4201	E3
IC4004	E1	Q4202	D2
IC4006	D1	Q4203	E1
	D1		
IC4007	D1	Q4204	E1
IC4008	D2	Q4205	E1
IC4009	E2	QR3001	E3
IC4011	E2	QR3101	E4
IC4013	D2	QR3200	E4
IC4102	E1	QR3201	E3
IC4202	E1	QR4001	E1
IC6003	A1	QR4002	E3
IC6009	B1	QR4003	E3
IC6010	C1	QR4004	E3
IC6014	C1	QR4005	E3
IC6015	C1	QR6001	C2
P1	A5	QR6002	C2
P2	A3	QR6003	C2
P3	B5	QR6004	C2
P5	C5	QR6005	



(COMPONENT SIDE)

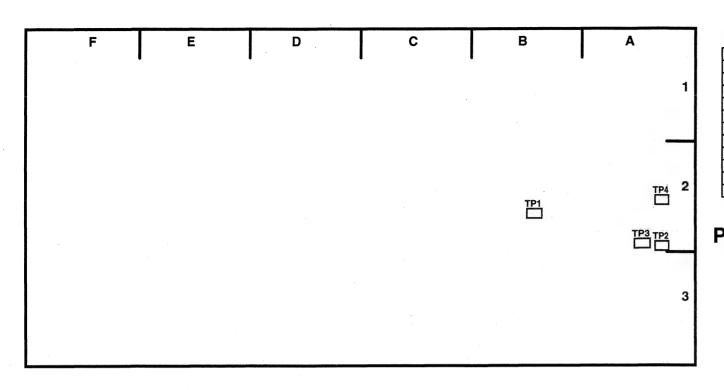


COMPONENT SIDE					
REF	LOC	REF	LOC	REF	LOC
IC1	A4	P11	E5	TP11	A3
IC2	A3	P12	E2	TP12	B5
IC4	A2	P14	E1	TP13	. C5
IC5	B3	P3001	D5	TP14	C5
IC13	B1	P3002	D3	TP15	C5
IC15	B4	Q6	B4	TP501	A5
IC16	B2	Q8	B4	TP502	A5
IC22	C3	Q15	: B5	TP3100	D5
IC23	B3	Q19	C5	TP3101	D5
IC46	A4	Q24	C5	TP3200	D4
IC51	A5	Q3002	E4	TP3201	D4
IC3001	C3	Q3100	E5	TP3202	D5
IC3008	D3	Q3102	E5	TP3203	C5
IC3100	E4	Q3106	E5	TP3300	D5
IC3101	E5	Q3107	E5	TP3500	E4
IC3203	C4	Q3207	D4	TP3501	E4
IC3210	D3	Q3221	D5	TP3502	D5
IC3211	C3	Q3222	C5	TP3503	D3
IC3300	D5	Q3225	C4	TP3504	D3
IC3500	D4	Q3300	D5	TP3505	D3
IC3501	D3	Q3305	D4	TP3506	D3
IC4001	E2	Q3501	D3	TP3507	D3
IC4010	E2	QR3100	E5	TP3508	E3
IC4012	D2	QR6009	C2	TP4001	E3
IC4101	D1	QR6010	C2	TP4004	E5
IC4201	D1	QR6011	C2	TP6001	B1
IC6001	B1	TG6	C5	TP6002	B1
IC6002	C3	TG3001	E4	TP6003	B1
IC6011	C1	TG3300	C3	TP6004	B1
IC6012	C1	TG3500	E4	VC6001	C2
IC6013	C2	TG4001	D1	VR5	C4
IC6016	C2	TP1	A3	VR6	C4
IC6018	C1	TP2	. A3	VR9	B5
P4	E3	TP3	B4	VR10	C5
P6	B5	TP4	C4	VR3200	D3
P7	B5	TP7	A1	VR4003	E2
P8	E5	TP8	A1	VR4101	D2
P9	C5	TP9	A1	VR4201	E2
P10	A5	TP10	A3		

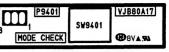
CBA-7

CBA-7

R SIDE P.C.BOARD (VEP86264A)

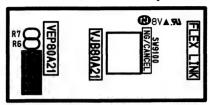


MODE CHE CK P.C. BOARD (VEP80A17A)



(FOIL SIDE)

FLEX RING P.C. BOARD (VEP80A21A)

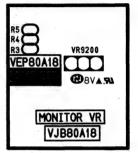


(FOIL SIDE)

POWER SW P.C.BOARD (VEP80A16A)

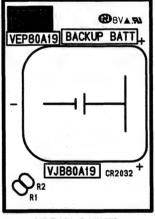


MONITOR VR P.C. BOARD (VEP80A18A)



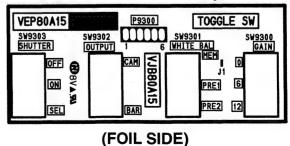
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BACK UP BATTERY P.C. BOARD (VEP80A19A)

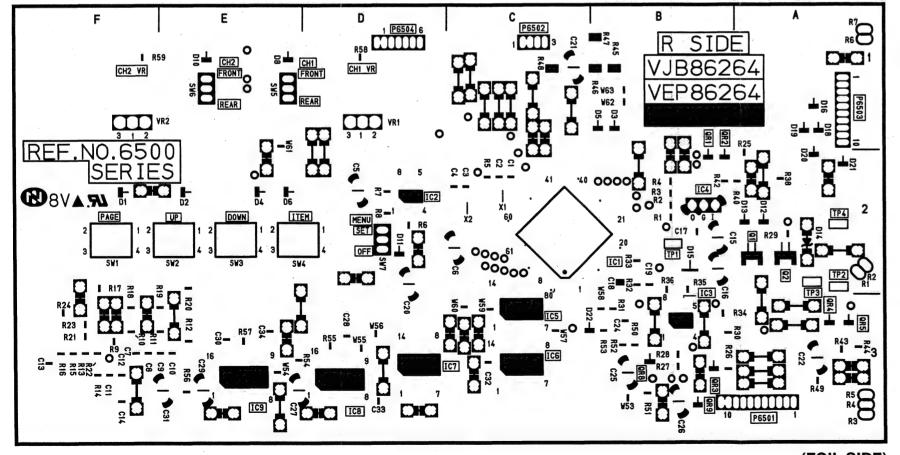


(FOIL SIDE)

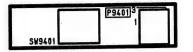
TOGGLE SW P.C. BOARD (VEP80A15A)



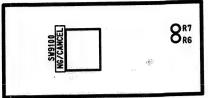
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MODE CHECK P.C.BOARD (VEP80A17A)

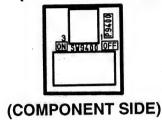




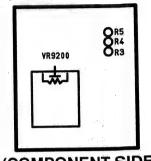


(COMPONENT SIDE)

POWER SW P.C.BOARD (VEP80A16A)

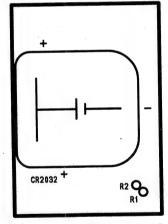


MONITOR VR P.C.BOARD (VEP80A18A)



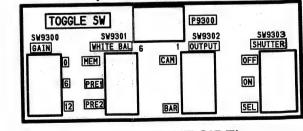
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BACK UP BATTERY P.C.BOARD (VEP80A19A)

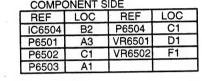


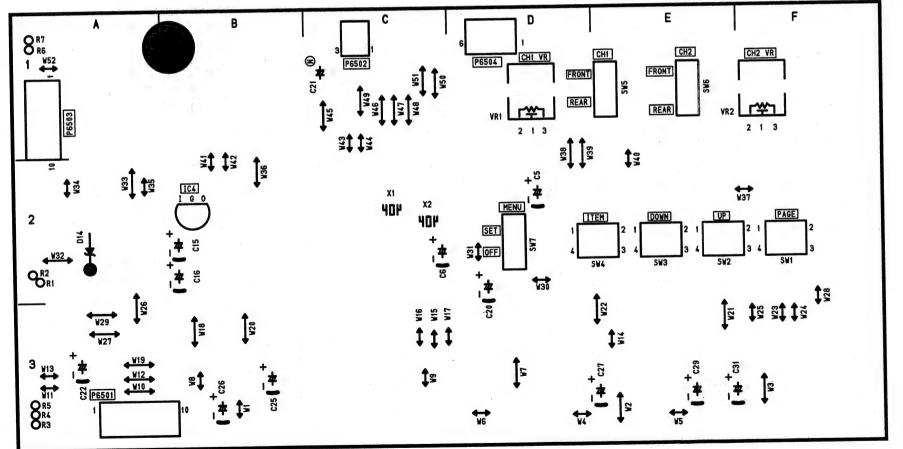
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TOGGLE SW P.C.BOARD (VEP80A15A)



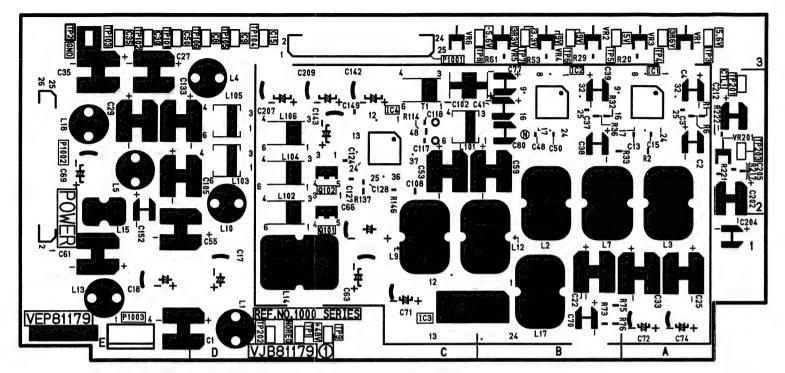
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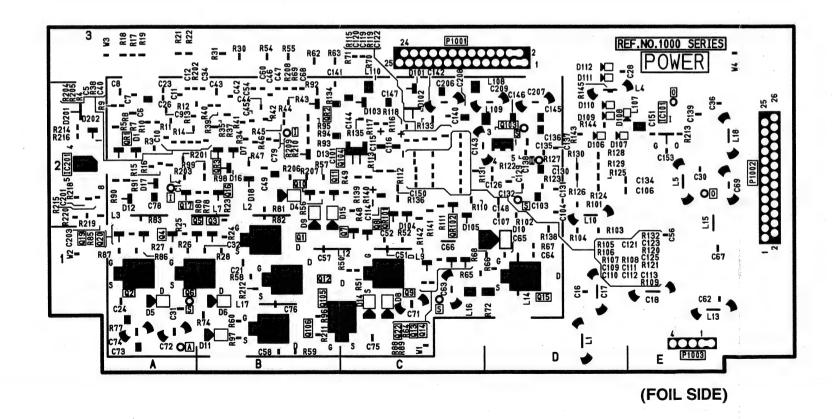


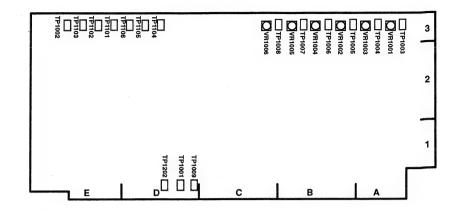
(COMPONENT SIDE)

POWER P.C.BOARD (VEP81179A)



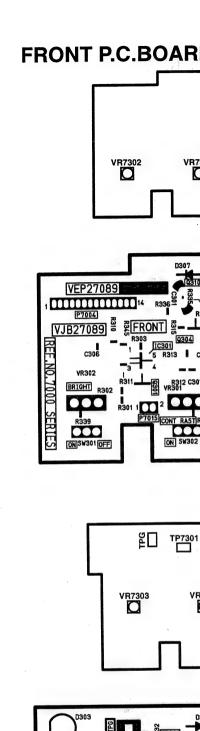
(COMPONENT SIDE)

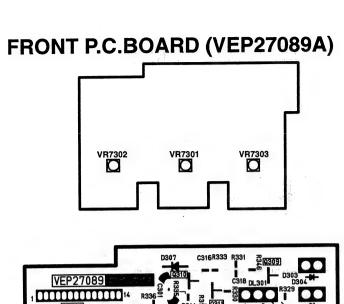




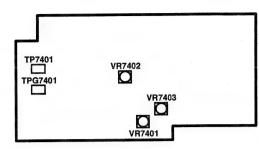
COMPONENT SIDE				
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IC1001	A2	TP1007	B3	
IC1002	B2	TP1008	B3	
IC1003	· C1	TP1009	D1	
IC1004	C2	TP1101	E3	
P1001	СЗ	TP1102	E3	
P1002	E2	TP1103	E3	
P1003	E1	TP1104	D3	
Q1101	D2	TP1105	D3	
Q1102	D2	TP1106	D3	
TP1001	D1	VR1001	A3	
TP1002	E3	VR1002	B3	
TP1003	A3	VR1003	A3	
TP1004	A3	VR1004	B3	
TP1005	B3	VR1005	B3	
TP1006	B3	VR1006	C3	

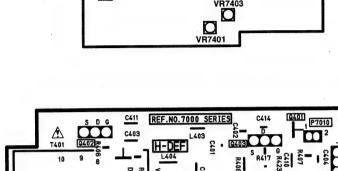
FOIL SIDE			
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Q1001	B1	Q1013	C1
Q1002	A1	Q1014	C1
Q1003	B1	Q1015	D1
Q1004	A1	Q1016	B2
Q1005	B1	Q1017	A2
Q1006	B1	Q1019	A1
Q1007	C1	Q1020	A1
Q1008	C1	Q1022	C1
Q1009	C1	Q1103	D1
Q1010	B2	Q1104	C2
Q1011	B2	Q1105	C1
Q1012	B1	Q1106	B1



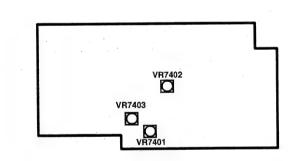


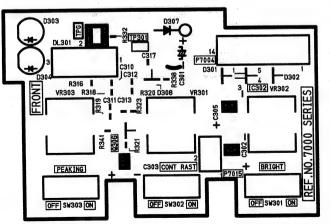
H DEF P.C.BOARD (VEP27086A)





(FOIL SIDE)



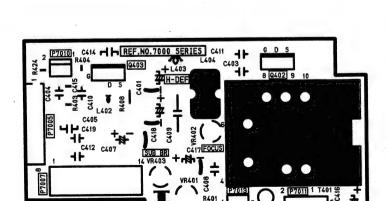


VR7301

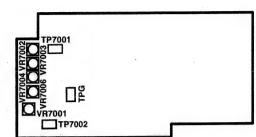
(COMPONENT SIDE)

ON SW303 OFF

(FOIL SIDE)



(COMPONENT SIDE)

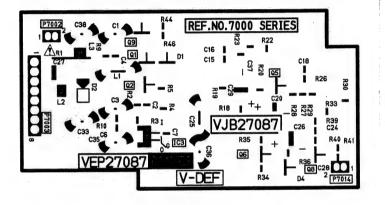




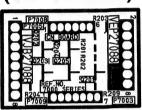
↑ 印の部品は、安全上重要な部品です。交換するときは、 安全及び性能維持のため必ず指定の部品をご使用ください。

IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.



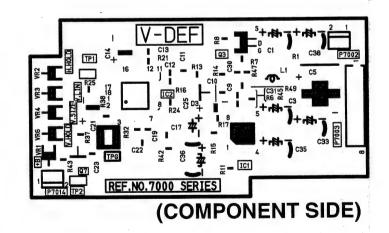


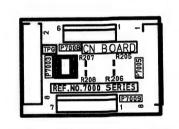
CN P.C.BOARD (VEP27088A)



(FOIL SIDE)

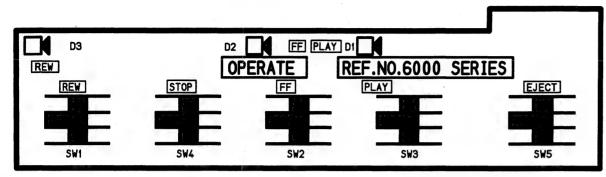
(FOIL SIDE)



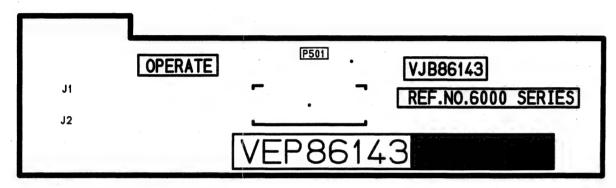


(COMPONENT SIDE)

OPERATE P.C.BOARD (VEP86143B)

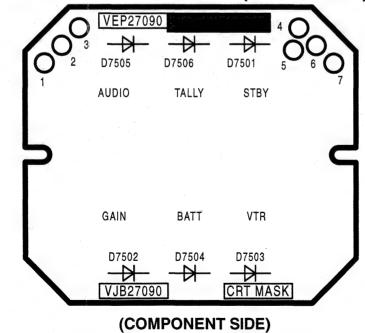


(COMPONENT SIDE)

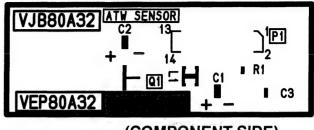


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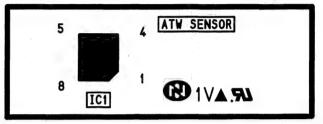
CRT MASK P.C.BOARD (VEP27090C)



ATW SENSOR P.C.BOARD (VEP80A32A)

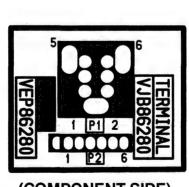


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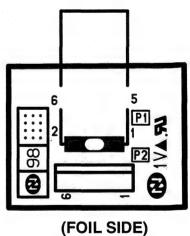


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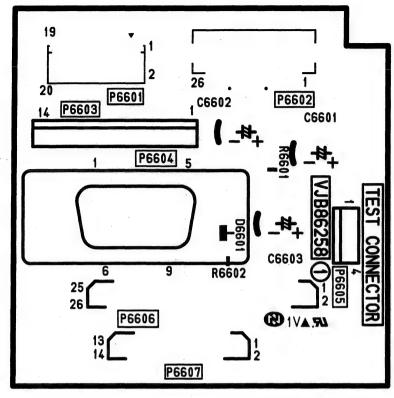
DVC PRO TERMINAL P.C.BOARD (AJ-D215HE ONLY VEP86280A)



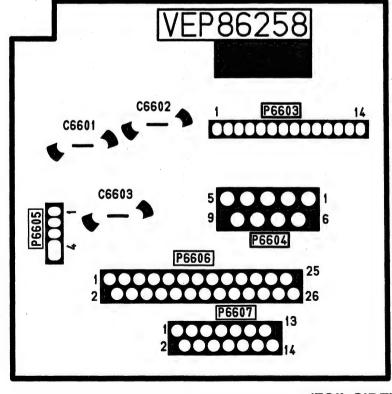
(COMPONENT SIDE)



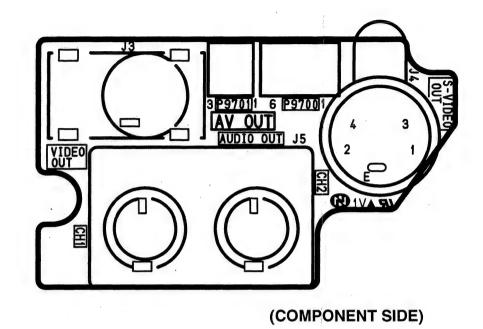
CBA-12

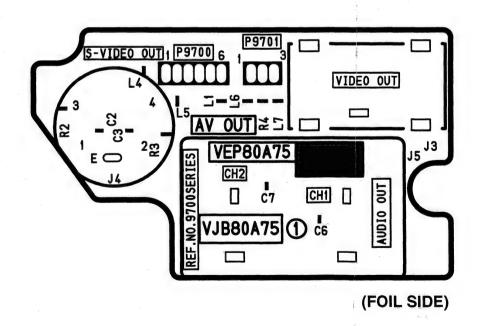


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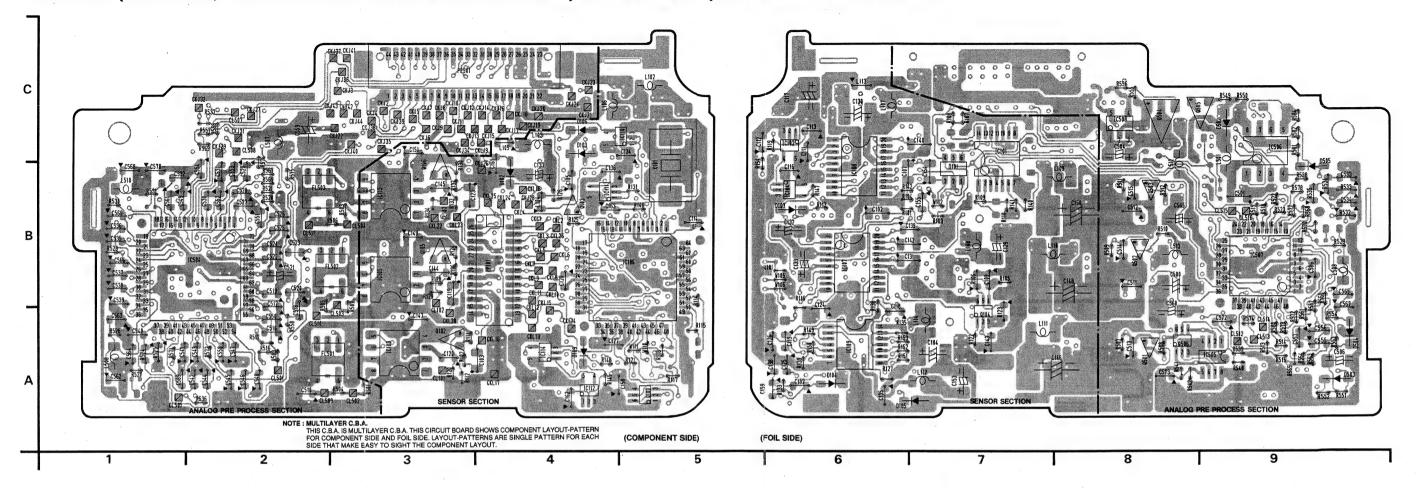


(FOIL SIDE)

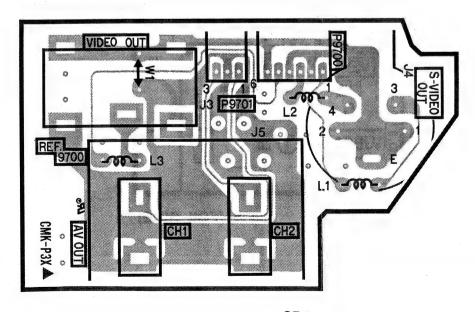




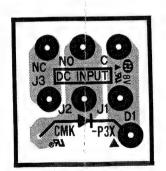
SENSOR (SENSOR, ANALOG PRE PROCESS SECTION) P.C.BOARD (FOR PAL: VEP22251B)



AV OUT P.C.BOARD (FOR NTSC: VEP80A43A)



DC INPUT P.C.BOARD (FOR NTSC: VEP80A44A)



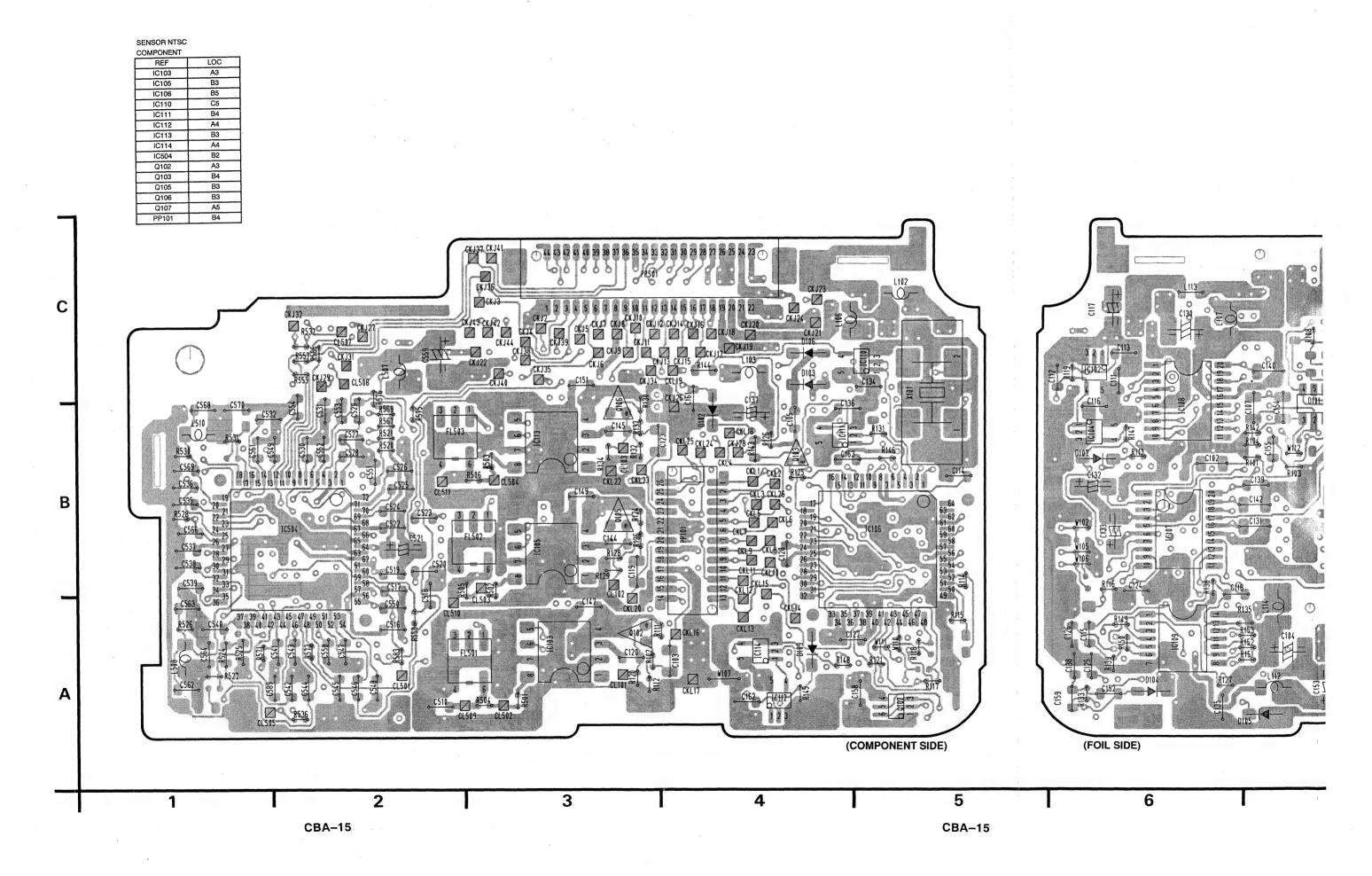
SENSOR PAL	
REF	LOC
IC103	A3
IC105	B3
IC105	B3
IC106	B5
IC110	C5
IC111	B4
IC112	A4
IC113	B3
IC114	A4
IC504	B2
PP101	B4
PP501	C3
Q102	A3
Q103	B4
Q105	B3
Q106	B3
Q107	A5

FOIL	
REF	LOC
IC101	C7
IC102	C6
IC104	B6
IC107	B6
IC108	B6
IC109	A6
IC505	A9
IC506	C9
IC507	B9
IC508	C8
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Q501	A8
Q502	B8
Q503	B8
Q504	C8
Q505	C9
Q506	A8

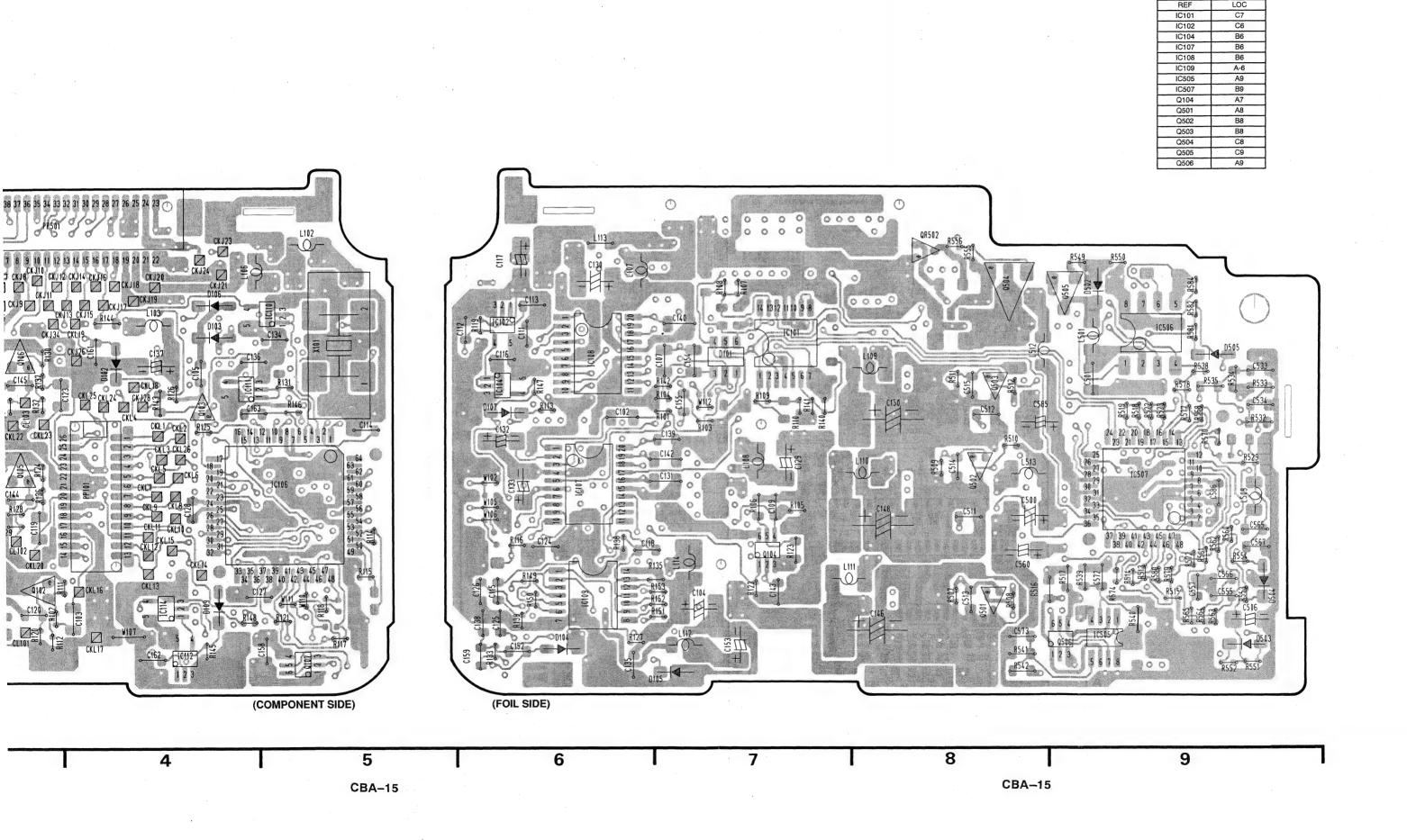
SENSOR PAL

CBA-14

SENSOR (SENSOR, ANALOG PRE PROCESS SECTION) P.C.BOARD (FOR NTSC: VEP22146A)



30ARD (FOR NTSC: VEP22146A)



SENSOR NTSC

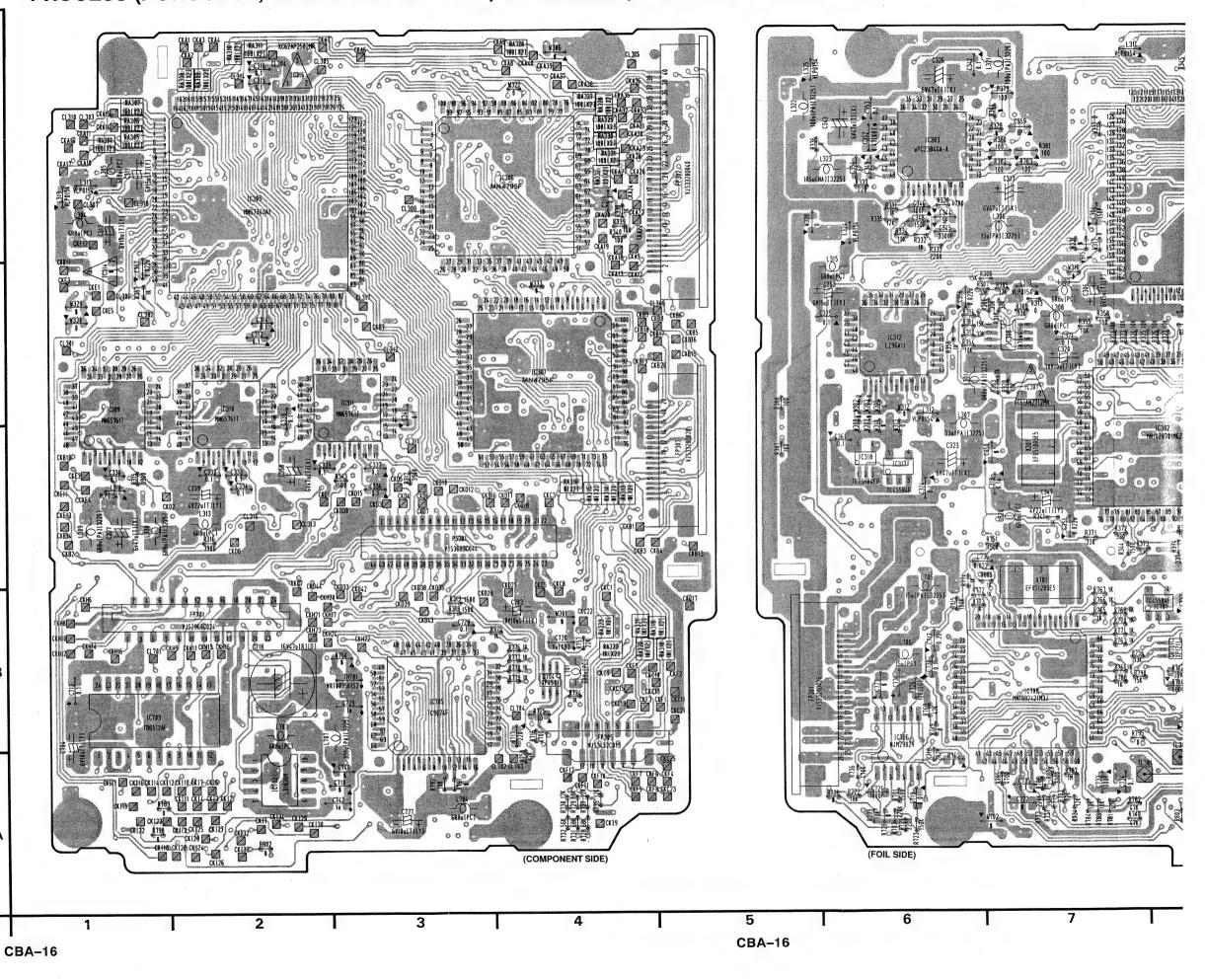
PROCESS (POROCESS, LENS DRIVE SECTION) P.C.BOARD (FOR NTSC: VEP23285B)

PROCESS PAL

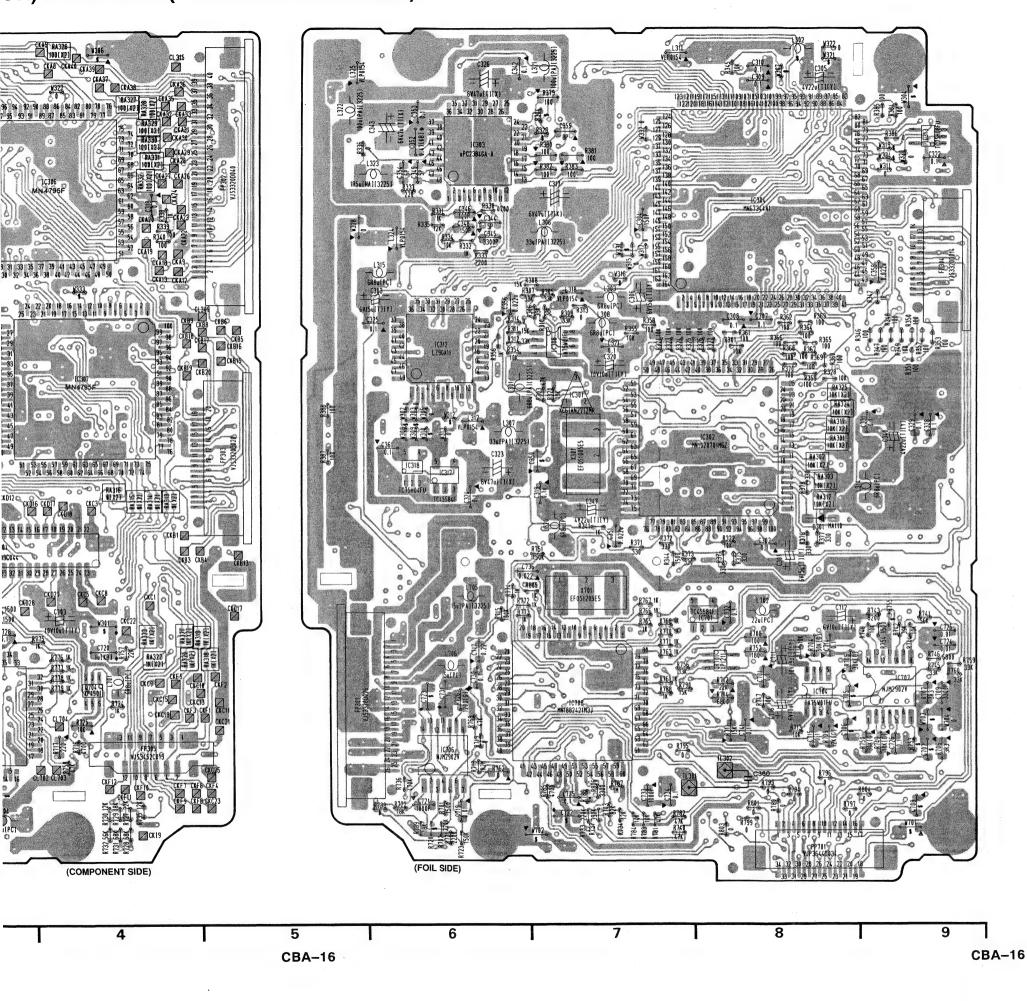
COMI CHENT	
REF	LOC
IC305	E2
IC306	E4
IC307	D4
IC309	D1
IC310	D2
IC311	D3
IC316	E2
IC702	A2
IC703	B1
IC705	B3
Q704	B4
FP301	C3
FP302	E5
FP303	C5
FP305	B4
FP701	B2

PROCESS PAL

111002001112	
FOIL	
REF	LOC
IC301	D7
IC302	C8
IC303	E6
IC304	E8
IC308	D7
IC312	D6
IC313	E9
IC317	C6
IC701	B8
IC704	B8
IC706	B6
IC707	B9
IC708	B7
QR701	B8
FP301	B5
PP701	A8
TL301	A7
TL302	A8



ON) P.C.BOARD (FOR NTSC: VEP23285B)



PROCESS NTSC

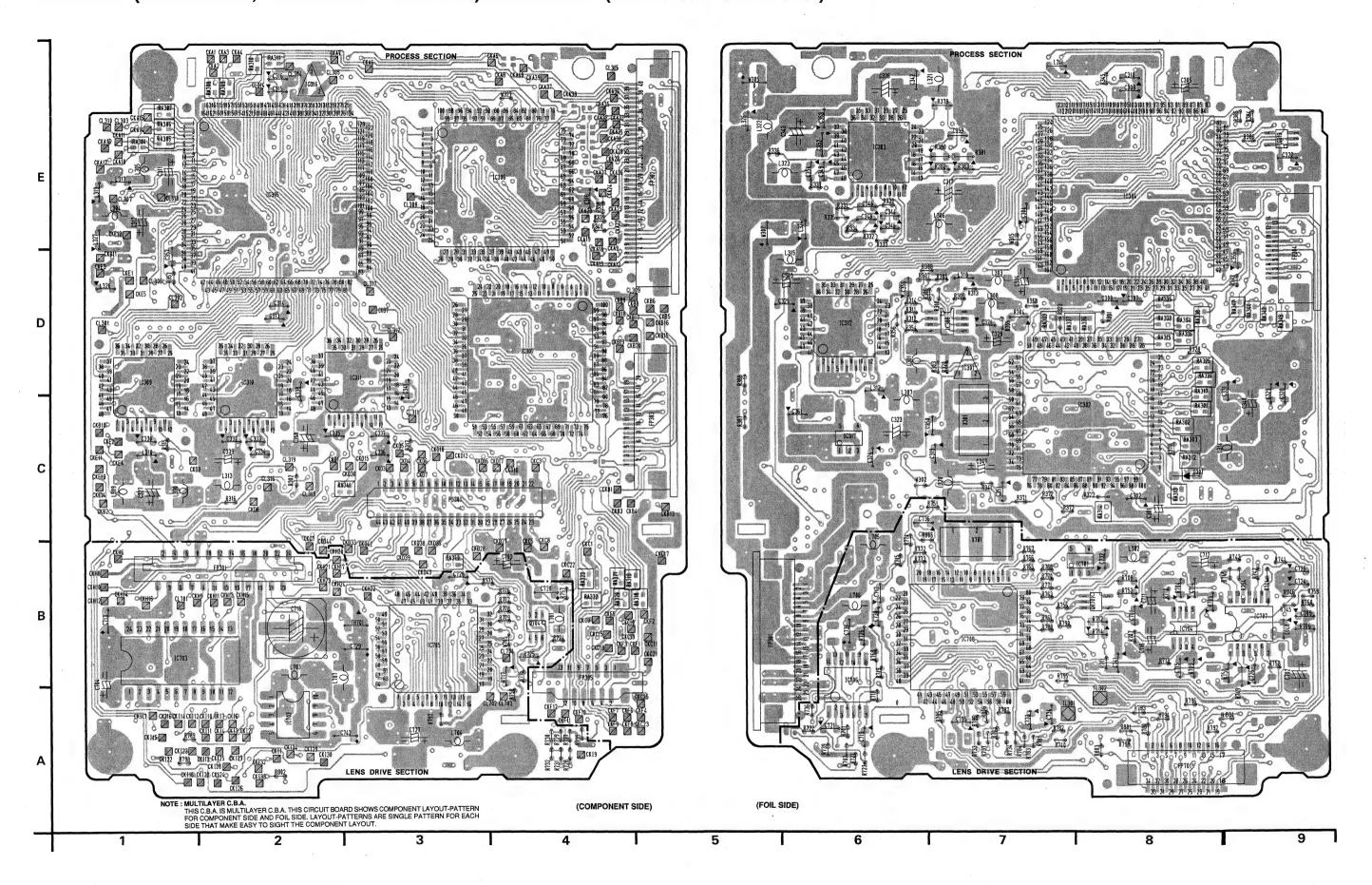
COMPONENT	
REF	LOC :
FP302	E5
FP303	C5
FP305	B4
FP701	B2
IC305	E2
IC306	E4
IC307	D4
IC309	D1
IC310	D2
IC311	D3
IC314	D1 -
IC316	E2
IC702	A2
IC703	B1
IC705	B3
PS301	C3
0704	B4

PROCESS NTSC

FOIL

0,2	
REF	LOC
FP301	B5
FP304	D9
IC301	D7
IC302	C8
IC303	E6
IC304	E8
IC308	D7
IC312	D6
IC313	E9
IC317	C6
IC318	C6
IC701	B8
IC704	B8
IC706	A6
IC707	B9
IC708	B7
PP701	A8
QR701	B8
TL301	A7
TL302	8A

PROCESS (POROCESS, LENS DRIVE SECTION) P.C.BOARD (FOR PAL: VEP23422B)



CBA-17

CBA-17

DIGITAL VIDEO INTERFACE BOARD

AJ-YAD210P

Specifications

Printed circuit board

Dimensions (W \times H \times D):

 $5^{7/8}$ "× $^{3/8}$ "× 4 3/8" (149×8×110 mm)

Weight:

0.132 lb (60 g)

Power consumption:

0.8 W

Items packed with board

- •DVCPRO connector unit
- •Screws for the DVCPRO connector unit (×4)
- •Floppy disk for upgrading the system software
- •Jumper wires (VEE0F66, VEE0F70: ×1 each)
- •Circuit board spacers (VMS4913: ×4)
- •Screws for the circuit board (×8)

Models supported

Digital camera recorders: AJ-D200, AJ-D210, AJ-D215

Features

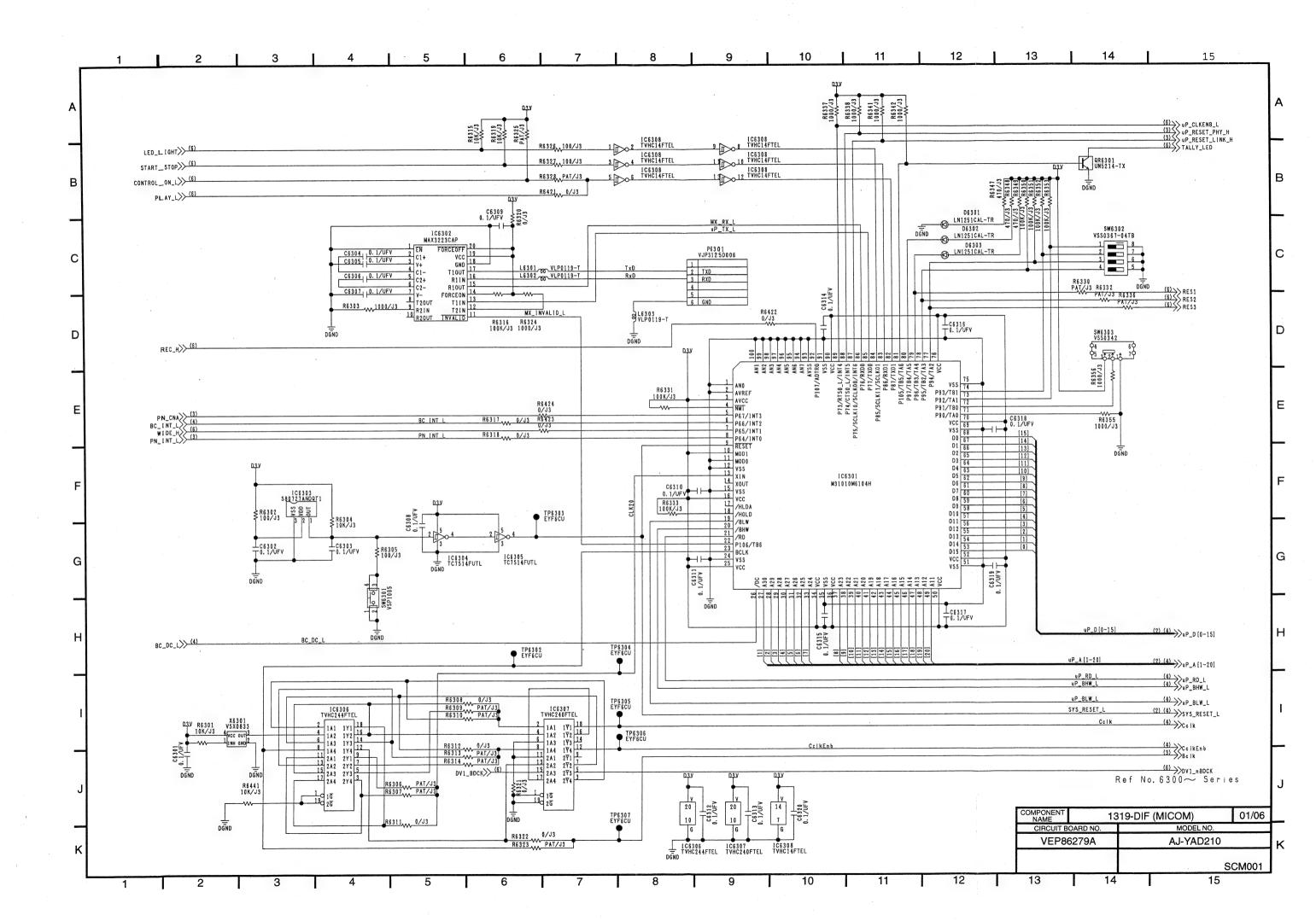
This product is a digital video interface board which is designed exclusively for use in the AJ-D200, AJ-D210 and AJ-D215 digital video camera recorders.

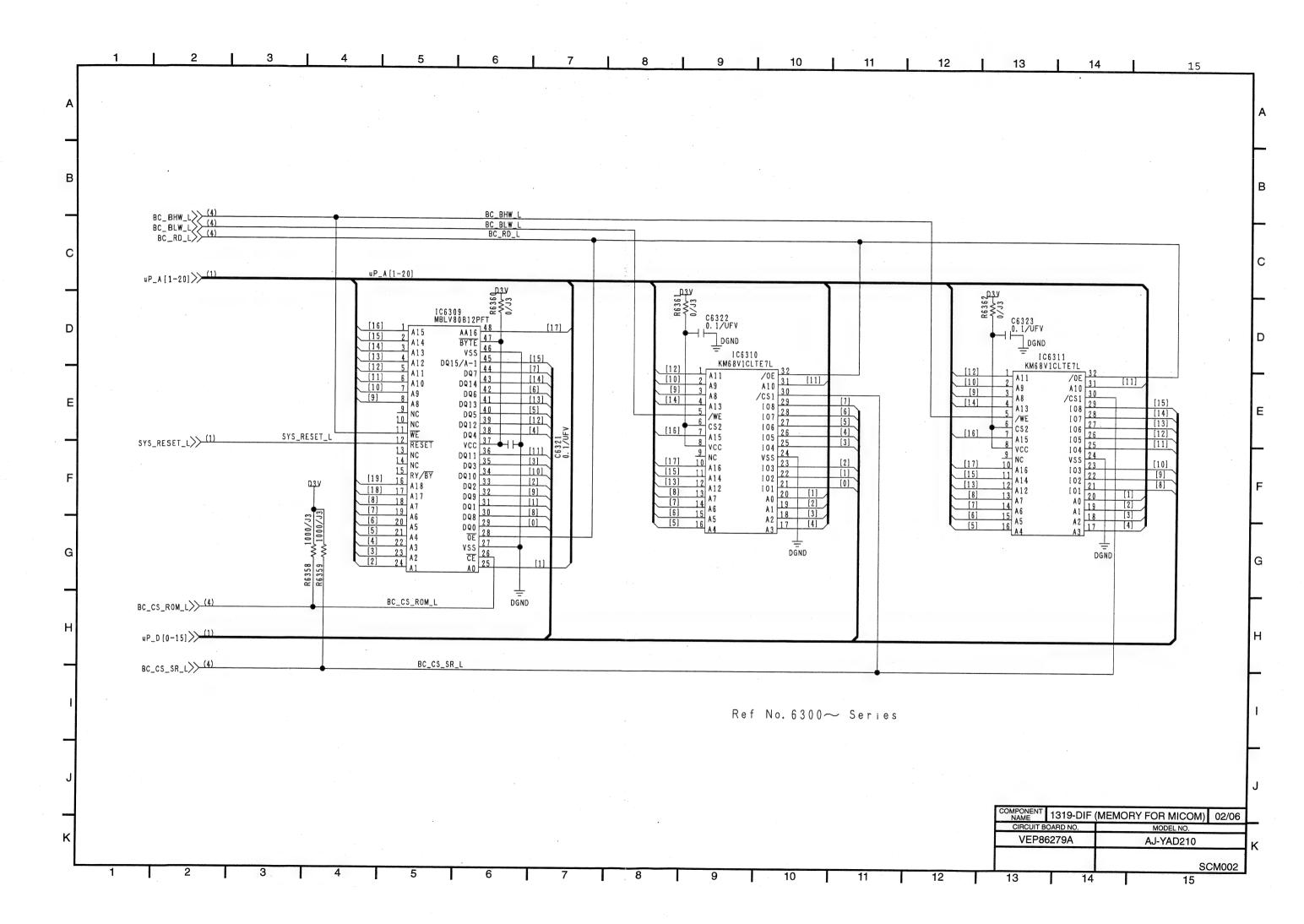
Installation of this board in the AJ-D200/D210/D215 creates an environment in which the AV signals of the AJ-D200/D210/D215 can be transmitted digitally. (IEEE1394-1995 standard compliant)

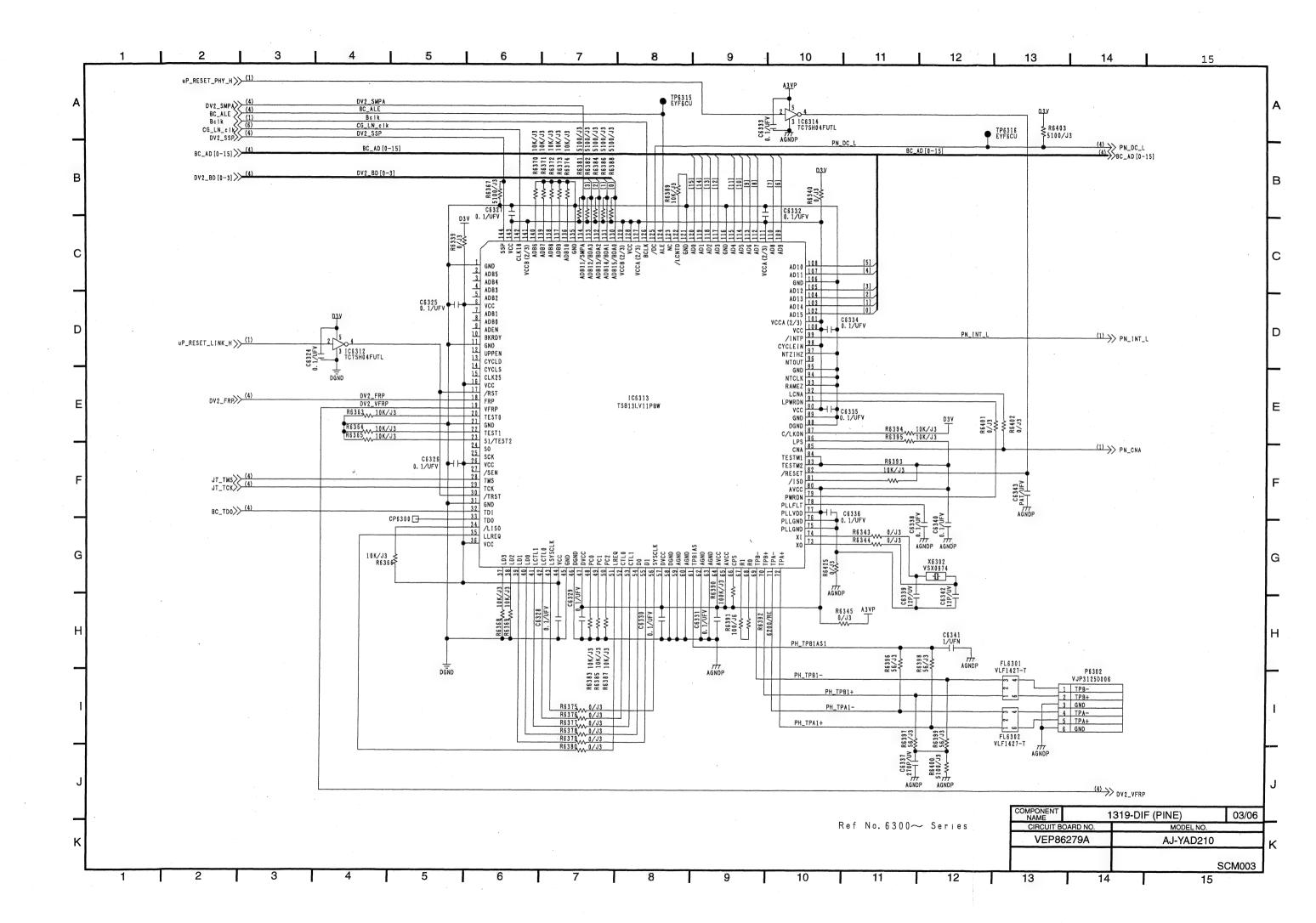
If connection is made with the AJ-D230H digital VTR, this unit can be used as a recording backup for the AJ-D200/D210/D215.

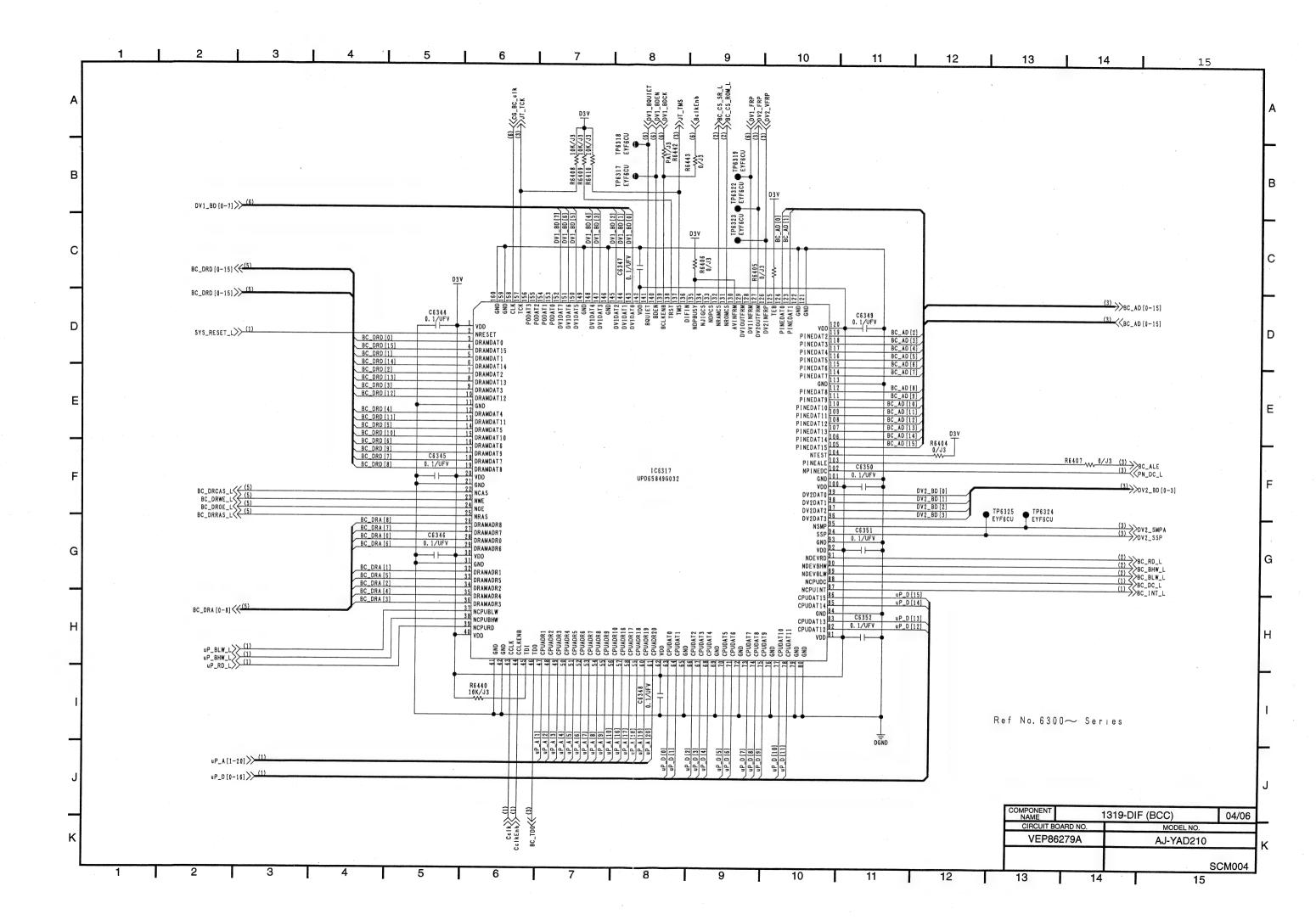
CONTENTS

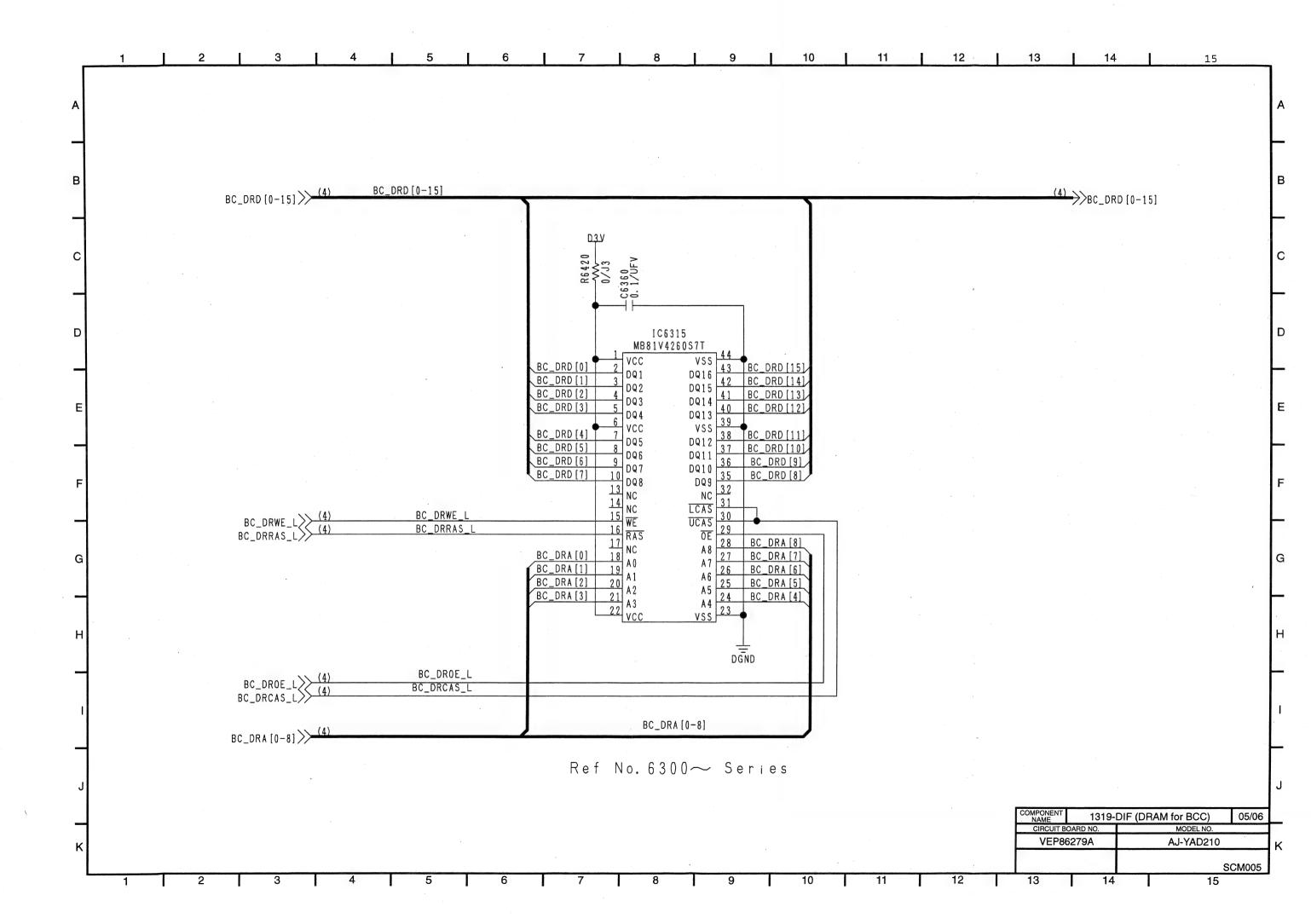
SECTION 1	OPERATING INSTRUCTIONS	1-1
SECTION 2	SCHEMATIC DIAGRAMS & CIRCUIT BOARD DIAGRAMS	
1319 DIF (MICOM) SCHEMATIC DIAGRAM	SCM-1
1319 DIF (MOMORY FOR MICOM) SCHEMATIC DIAGRAM	SCM-2
1319 DIF (PINE) SCHEMATIC DIAGRAM	SCM-3
1319 DIF (BCC) SCHEMATIC DIAGRAM	SCM-4
1319 DIF (DRAM FOR BCC) SCHEMATIC DIAGRAM	SCM-5
1319 DIF (CLOCK GENERATER)	SCM-6
DVCPRO 1	TERMINAL SCHEMATIC DIAGRAM	SCM-7
DVC PRO	TERMINAL P.C.BOARD	CBA-1
1319 DIF F	P.C.BOARD	CBA-2
SECTION 8	EXPLODED VIEWS & PARTS LIST	

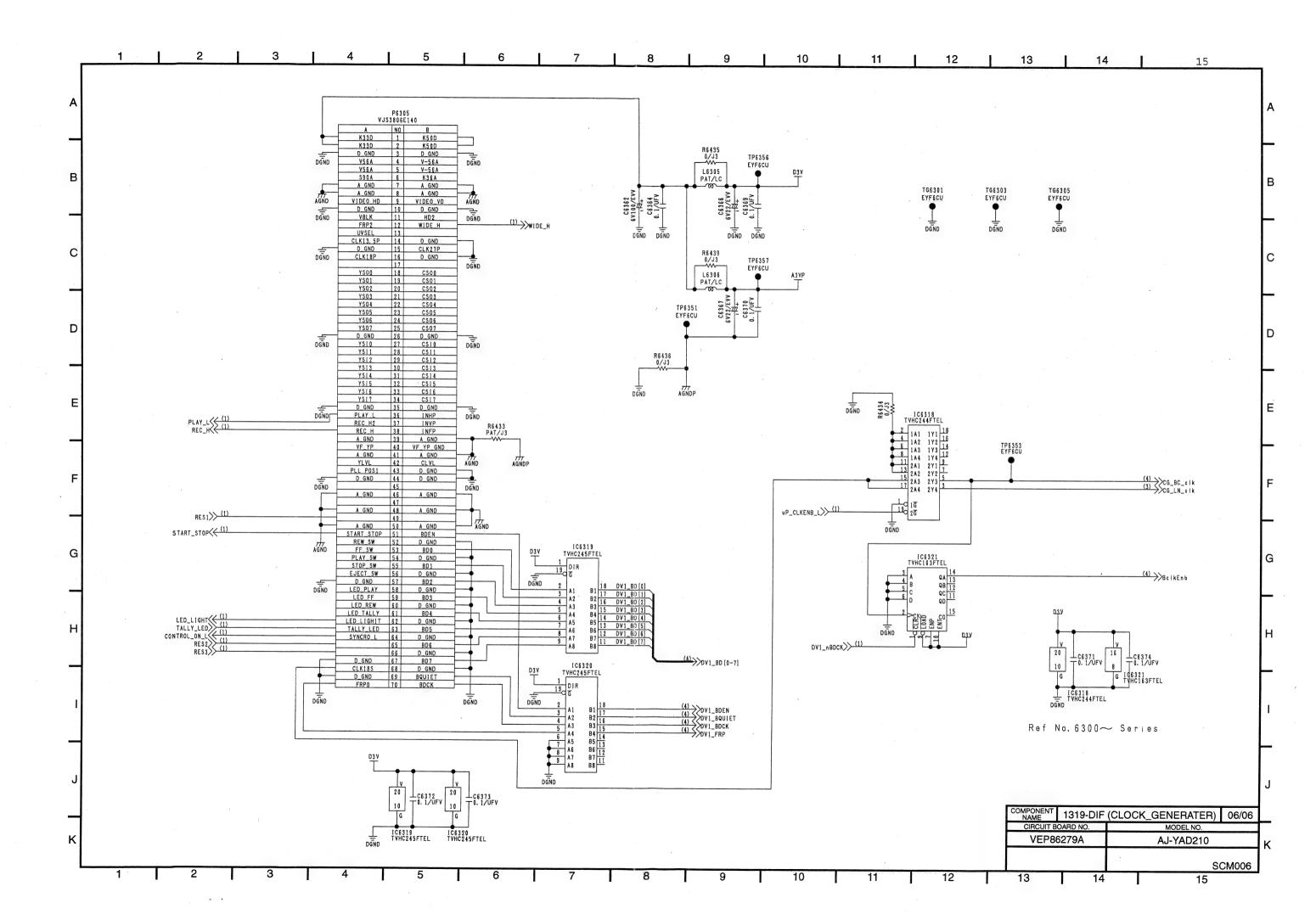






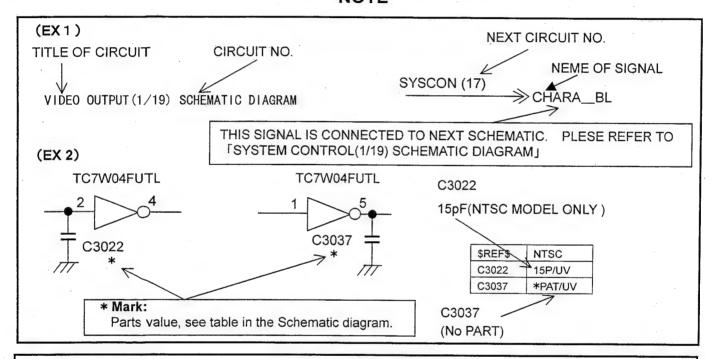






SCHEMATIC DIAGRAMS & CIRCUIT BOARD DIAGRAMS

NOTE



IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED WITH THE MARK AND HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.

AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WASPREPARED.

CONTENTS

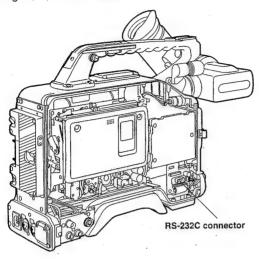
1319 DIF (MICOM) SCHEMATIC DIAGRAM	SCM-
1319 DIF (MOMORY FOR MICOM) SCHEMATIC DIAGRAM	SCM-2
1319 DIF (PINE) SCHEMATIC DIAGRAM	SCM-3
1319 DIF (BCC) SCHEMATIC DIAGRAM	SCM-4
1319 DIF (DRAM FOR BCC) SCHEMATIC DIAGRAM	
1319 DIF (CLOCK GENERATER)	SCM-6
DVCPRO TERMINAL SCHEMATIC DIAGRAM	SCM-7
DVC PRO TERMINAL P.C.BOARD	CBA-1
1319 DIF P.C. BOARD	

AJ-D200/D210/D215 VTR modes and DVCPRO interface output statuses

	AJ-D200/AJ-D210/AJ	-D215			AJ-D230H (external V	TR for recording)			
VTR mode	DVCPRO I/F OUT	VIDEO	AUDIO		Synchronized recording mode	LOCAL mode			
STOP	As a	**		- N	Key operations are acknowledged.				
FF/REW	Camera E-E output (AUDIO/VIDEO)	Camera E-E output	E-E output (AUDIO IN)						
STANDBY OFF				No.	1 to				
PLAY	Tape output (AUDIO/VIDEO)		Tape output		Key operations are not acknowledged.				
STILL (PLAY+PLAY)	Tape output	Tape output	Sound			All key operations of the AJ- D230H are acknowledged			
PLAY+FF/ PLAY+REW	(VIDEO)		muting .			regardless of the AJ- D200/D210/D215 VTR operation mode.			
REC					Key operations are not acknowledged. Operations are synchronized with the	mode.			
REC PAUSE	Camera E-E output	Camera E-E	E-E output (AUDIO IN)		AJ-D200/D210/D215 VTR operation mode.				
EJECT	(AUDIO/VIDEO)	output		(AUDIO IN)	(AUDIO IN)	(AUDIO IN)	(AUDIO IN)		Key operations are not acknowledged. However, keys can be operated when the AJ-D200/D210/D215 is set to the STOP mode.
Remarks	Use a dedicated DVCPRO interface cable.	BNC output			INPUT SELECT switch: "OPTION" position LOCAL/MENU/REMOTE switch: "REMOTE" position	INPUT SELECT switch: "OPTION" position LOCAL/MENU/REMOTE switch: "LOCAL" position			

E- 17

Connect the RS-232C connector (D-SUB, 9 pins) of the SYSCON circuit board to the personal computer using the RS-232C cable.

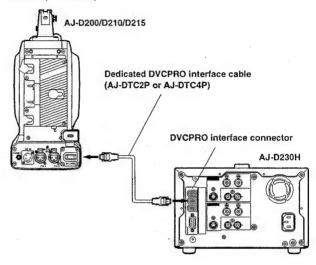


Use the upgrading floppy disk which is packed with the board to upgrade the system software.

Equipment connections

Use a dedicated DVCPRO interface cable (AJ-DTC2P or AJ-DTC4P) to connect the AJ-D200/D210/D215.

(The input/output pins on the DVCPRO interface connector are bidirectional. No distinction is made between the input and output sides.)



E- 13

Operating precautions

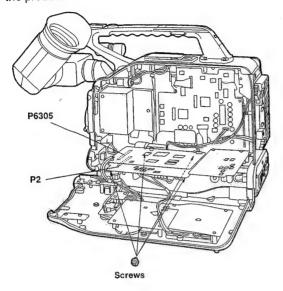
- Use a dedicated DVCPRO interface cable (AJ-DTC2P or AJ-DTC4P) for the connection.
- Disturbances may be caused in the AV signals by turning the connected equipment's power ON or OFF and by connecting or disconnecting the interface cable.
- It may take a few seconds for the operation of the system to stabilize when the mode is changed. Wait until the system operation has stabilized before proceeding to record.
- When recording with DVCPRO interface input signals, the recording volume level control on the AJ-D230H will not function.
- The REC command to the AJ-D230H for backup recording purposes is supported but the timing at which the AJ-D230H is set to the recording mode will be delayed by one second or so from the timing at which the AJ-D200/D210/D215 enters the recording mode.
- Interface signals cannot be input to the AJ-D200/D210/D215 DVCPRO. Neither is it possible to control a AJ-D200/D210/D215 VTR using the AV/C command.
- Time code data and UB data are not contained in the DVCPRO interface output signals from the AJ-D200/D210/D215. When a camera image from the AJ-D200/D210/D215 is to be recorded on an external VTR, it is recommended that the TCG mode be set to the FREE RUN setting in advance.

However, the time code data and UB data on the playback tape will be output but only in the playback output signals.

E- 14

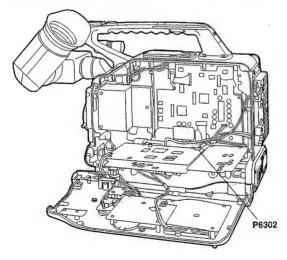
- The sound is muted during still picture, fast forward, cue, rewind and review, that is, at all times except during AV playback.
- When a tape has been loaded in the AJ-D200/D210/D215, the AJ-D230H controls the recording in synchronization with the recording start button (VTR START/STOP button) on the AJ-D200/D210/D215. (This is known as the synchronized recording mode.)
 Only one AJ-D230H unit can be connected when the
 - Only one AJ-D230H unit can be connected when the synchronized recording mode has been established.
- The synchronized recording mode will not be established when a tape has not been loaded in the AJ-D200/D210/D215. The DVCPRO interface output signals from the AJ-D200/D210/D215 can be recorded by setting the AJ-D230H to the local mode. (This involves setting the LOCAL/MENU/REMOTE switch on the front panel of the AJ-D230H to the LOCAL position.)
 - One or two AJ-D230H units can be connected at this time.
- Recording with the AJ-D230H is possible only using the DVCPRO format.
- The DVCPRO interface output channel from the AJ-D200/D210/D215 is fixed at "0." Set the DVCPRO interface input channel to "0" when DVCPRO interface output signals from the AJ-D200/D210/D215 are to be received using the AJ-D230H. Recording with the AJ-D230H is not possible at any other channel setting.
- When mounting the digital video interface board (AJ-YAD230P) onto the AJ-D230H and using in local mode, set No. 805 DIF REC SEL of the setup menu to "ERASE".

5. Insert connector P6305 of the board into connector P2 on the soldered surface of the VTR MAIN circuit board, and secure it using the 4 screws packed with the product.



E- 9

3. Connect the 6-pin connector of the DVCPRO connector unit to connector P6302 on the board.

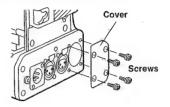


■ Assembly

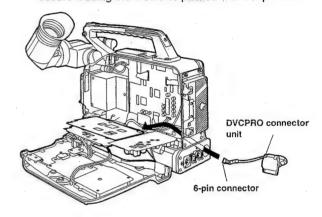
- Return the pulled-down board to its original position, and secure it using the 5 red screws and 2 silver screws.
- 2. Attach the side panel on the operation panel side using the 7 screws.

■ Attaching the DVCPRO connector unit

 Remove the 4 screws of the jack area on the AJ-D200/D210/D215's rear panel, and remove the cover.



Pass the 6-pin connector of the DVCPRO connector unit through the unit as shown in the figure, and secure it using the 4 screws packed with the product.

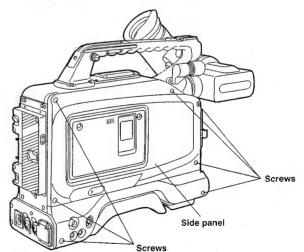


E - 10

Upgrading the system software

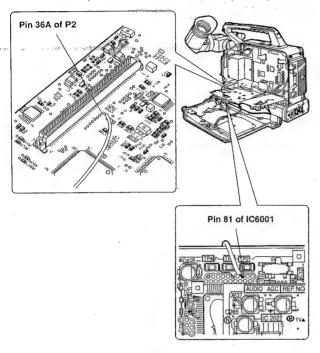
Once the board has been installed in the AJ-D200/D210, proceed to upgrade the system software.

- This is not necessary for the AJ-D215.
 - Remove the 7 screws on the AJ-D200/D210's cassette holder, and remove the side panel.



For the AJ-D200: A jumper wire is added in 2 places.

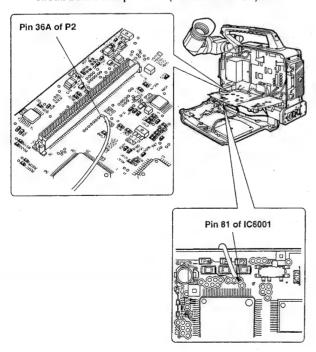
- This is not necessary for the AJ-D215.
- 3. 1. Solder one of the jumper wires (VEE0F66) between pin 81 (component surface) of IC6001 on the VTR MAIN circuit board and pin 36A (soldered surface) of P2.



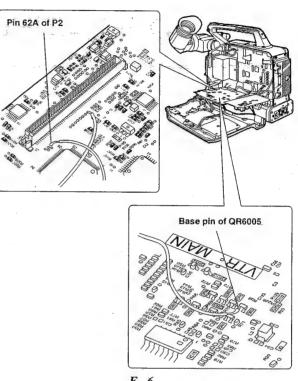
E-5

For the AJ-D210: A jumper wire is added in 1 place.

- This is not necessary for the AJ-D215.
 - $oldsymbol{3}_{ullet}$ Solder the jumper wire (VEE0F66) between pin 81 (component surface) of IC6001 on the VTR MAIN circuit board and pin 36A (soldered surface) of P2.

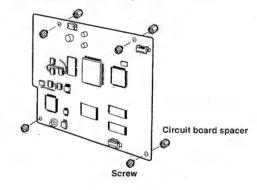


2. Solder the other jumper wire (VEE0F70) between the base pin (soldered surface) of QR6005 on the VTR MAIN circuit board and pin 62A (soldered surface) of



E- 6

4. Secure the circuit board spacers to the board using the 4 screws packed with the product.



SECTION 1

OPERATING INSTRUCTIONS

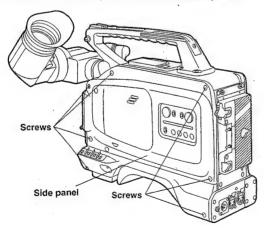
Installing the board in the AJ-D200/D210/D215

This board must be installed in the AJ-D200/D210/D215 for use. Follow the steps below for installation.

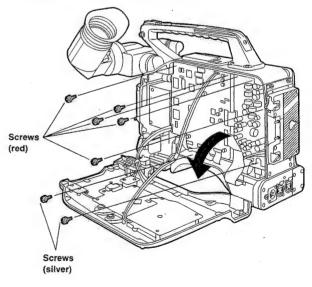
 The AJ-D200/D210/D215's power must be turned off prior to installation.

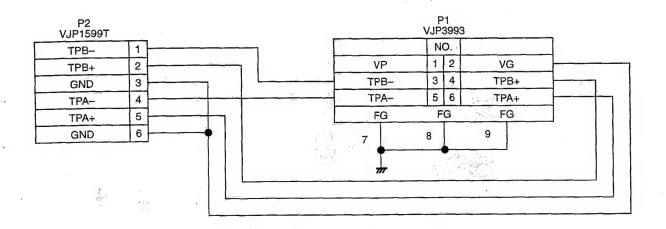
Installing the board

1. Remove the 7 screws on the operation panel of the AJ-D200/D210/D215, and remove the side panel.



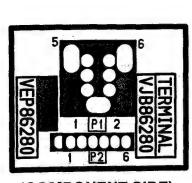
 Remove the 5 red screws and 2 silver screws, and pull down the board toward you.



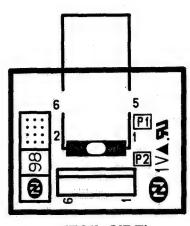


COMPONENT NAME	DVCPRO TERMINAL					
CIRCUIT BOA	RD NO.	MODEL NO.				
VEP862	80A	AJ-D215HE				
			SCM-007			

DVC PRO TERMINAL P.C.BOARD (VEP86280A)

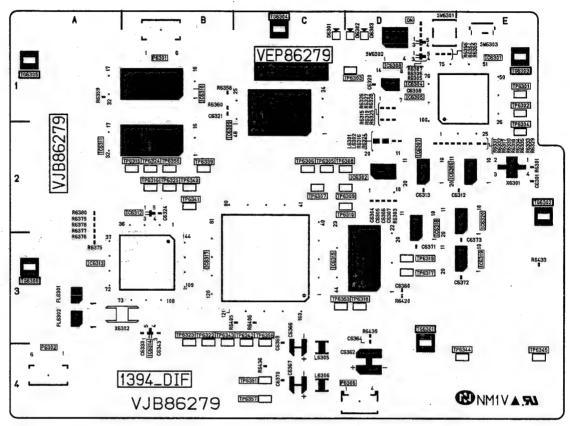


(COMPONENT SIDE)

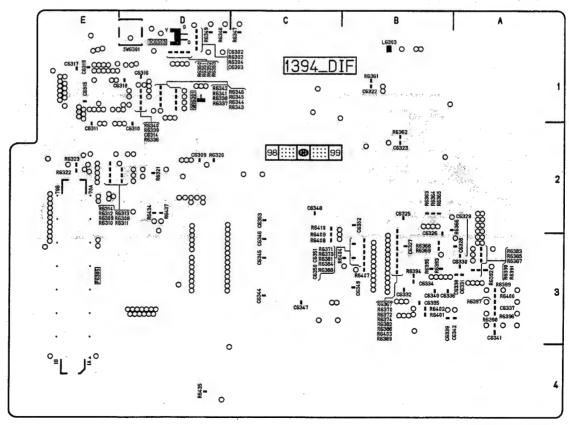


(FOIL SIDE)

1319 DIF P.C.BOARD (VEP86279A)



(COMPONENT SIDE)



(FOIL SIDE)

SECTION 8

EXPLODED VIEWS PARTS LIST

Note:

- 1. *Be sure to make your orders of replacement parts according to this list.
- 2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= $\mu\mu$ F.
- 3. The P.C. Board units marked with "" shown below the main assembled parts.
- 4. The parts marked with E on the exploded view show the electric parts.
- 5. IMPORTANT SAFETY NOTICE

Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

6. The marking (RTL) indicates the retention time is limited for this item.

After the discontinuation of this assembly in production, it will no longer be available

<< Abbreviations for part>>

W/COMPONENT

<name></name>	<descriptions></descriptions>
C. CAPACITOR E. CAPACITOR G. CAPACITOR M. CAPACITOR P. CAPACITOR	: PLASTIC FILM CAPACITOR: SEMI-CONDUCTOR CAPACITOR
C. RESISTOR F. RESISTOR M. RESISTOR M. RESISTOR S. RESISTOR V. RESISTOR W. RESISTOR	: CARBON RESISTOR : FUSE RESISTOR : METAL OXSIDE RESISTOR CH : METAL OXSIDE CHIP RESISTOR : SOLID RESISTOR : VARIABLE RESISTOR : WIRE WOUND RESISTOR
COMBI. TR-R COMBI. R-R COMBI. C-R COMBI. C-R-R	 : TRANSISTOR-RESISTOR COMBINATION PARTS : RESISTOR-RESISTOR COMBINATION PARTS : CAPACITOR-RESISTOR COMBINATION PARTS : CAPACITOR-RESISTOR-COIL COMBINATION PARTS
P.C. BOARD	: PRINTED CIRCUIT BOARD

WITH COMPONENT

CONTENTS

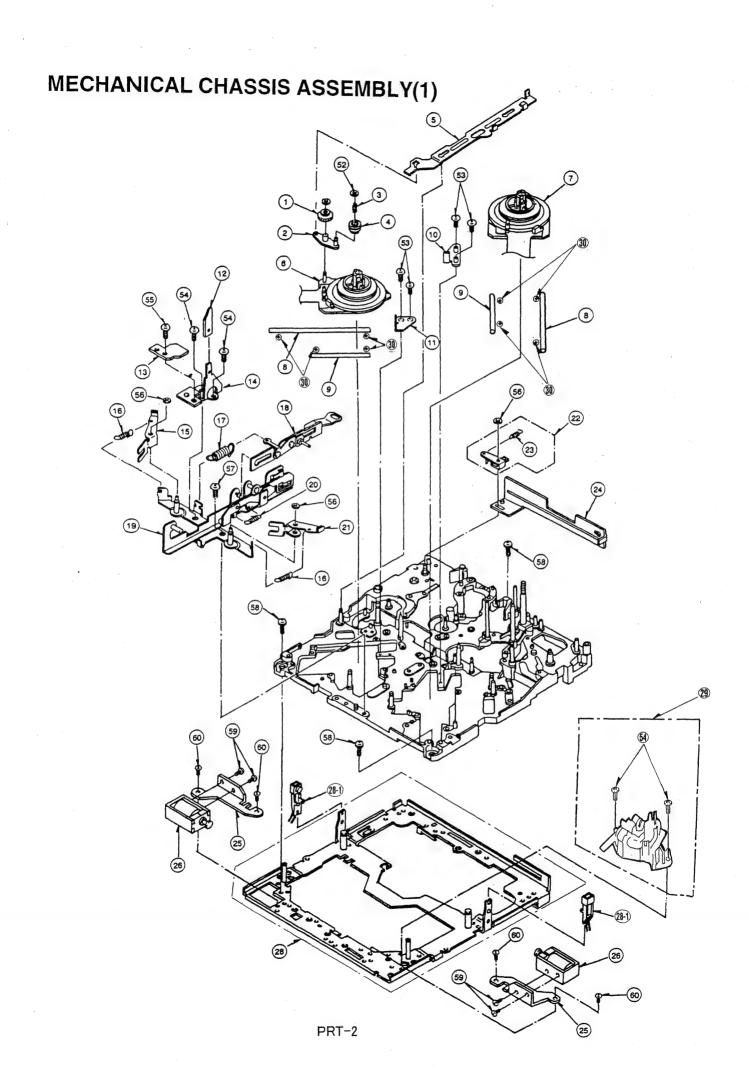
Mechanical Replacement Parts List & Exploded Views · · · · · PRT-1
Mechanical Chassis Assembly (1) · · · · · PRT-1
Mechanical Chassis Assembly (2) · · · · · PRT-3
Frame Assembly (1) PRT-5
Frame Assembly (2) PRT-7
Cassette Compartment Assembly · · · · PRT-9
EVF Assembly ····· PRT-1
Packing Parts Assembly · · · · · PRT-13
Electrical Replacement Parts List · · · · · PRT-14

SERVICING FIXTURES & TOOLS

AJ-D215P/HE_D200P/E

Ref. No.	Part No.	Part Name & Description	cs.	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
								,	
1	VFK1145	BACK TENSION METER	1						
2	VFK1149	POST DROVER	1						
3	VFK71	DIAL TORQUE GAUGE (150G)	1						
4	VFK1191	DIAL TORQUE GAUGE (45G)	1						
5	VFK1152	GORQUE GAUGE ADAPTOR	1			*****************************			
6	VFK0357	ECCENTRIC SCREWDRIVER	1						·
7	VFK1154	POST HIGHT TOOL	1						
8	VFK1153	MECH NEWTRAL PLATE	1						
8	VFK1157	MECH NEWTRAL PLATE	1	1	<u> </u>				
9	VFK1155	NEWTRAL POSITION TOOL	1						
10	VFK1156	NEWTRAL POSITION TOOL	1						
11	VFK1208	NEWTRAL POSITION TOOL	1						
12	VFK1150	NUT DRIVER (5.2MM)	1						
13	VFK1151	NUT DRIVER (2.5MM)	1						
14	VFK1188	DIAL TENSION GAUGE	1						
15	VFK0948A	CHECK LIGHT	1						
16	VFK0749	FROIRAL GREASE	1	•					
17	MOR265	MORLYTONE GREASE	1						
18	VFK1146	PHILIPS DRIVER	1						
19	VFK1147	SCREW DRIVER	1						****
20	VFK1148	HEX DRIVER (1.5MM)	1						N
21	VFK1178	HEX DRIVER (0.89MM)	1						
22	VFK1179	HEX DRIVER (0.71MM)	1						
23	VFK1190	HEX WRENCH (1.5MM)	1		-				
24	VFK1209	TORQUE DRIVER (0.4-3KG)	1						
25	VFK0912	TORQUE DRIVER ADAPTOR (1.5M)	1						
26	VFK1300	A/D BOARD (DAQ-12, QUATECH)	1						
28	VFK1481	LISTA SOFTWARE	1						
29	VFK1186	LISTA CABLE	1						
						·			
		ALIGNMENT TAPE (NO.1)	1						
	VFM3680KL		1		-				
	VFM3681KL	ALIGNMENT TAPE (NO.2)							
	<u> </u>					***************************************			

,	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pes	Remarks
	VDG1189	IDLER GEAR A	1						
	VXL2614	IDLER ARM ASS'Y	1				personal and the second of the		
	VMB3011	IDLER SPRING	1				i danagan, an maka atau atau atau atau atau atau atau a		
	VXP1700	IDLER GEAR ASS' Y	1						THE RESERVE TO SERVE AND A PROPERTY OF THE RESERVE TO SERVE AS A SERVER THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE THE RESERVE TO SERVE THE RESERVE THE RE
	VMM0422	E-E ROD	1						
		S REEL MOTOR		(M)					
	VEM0659	T REEL MOTOR		(N)			AND CORPORATION OF THE PROPERTY OF THE PROPERT		Control of the second s
		REEL OUTER RAIL	2						
		REEL INNER RAIL	2				and the second s		AND ASSESSMENT OF THE PROPERTY AND ADDRESS
0	1.1 2	RAIL TABLE STOPPER (T)	1						
1	VMA9726	RAIL TABLE STOPPER (S)	1						
2		BRAKE RELEASE	1		L MAN UTS OF MAN TO THE MONROW	AND THE RESIDENCE OF THE PARTY	AND PROPERTY OF THE PARTY OF TH		
3	VEK7694	CASSETTE DOWN PHOTO ASS'Y	1						
3–1	0N1004-R	PHOTO INTERRUPTER	1				THE RESERVE OF THE PROPERTY OF THE PARTY OF		A CONTRACTOR OF THE PARTY OF TH
4	VMA9729	L CASSETTE LOCK RELEASE BASE	1			9,000			h
5	VXL2755	S BRAKE ARM	1						
6	VMB3137	S BRAKE SPRING L	2					-	
7	VMB3139	SLIDE ROD SPRING	1					 	
		SLIDE ROD	1				,	-	
8	VXL2754								
9	VXA5892	BRAKE BASE	 					ļ	
0	VMB3168	LOCK SPRING	-!					-	<u> </u>
1	VXL2756	T BRAKE ARM	1						
2	VXL2615	CONNECTION ARM B	⊢!						
.3	VMB2973	ARM RELEASE SPRING	1					ļ	
4	VXL2653	CONNECTION ARM C ASS'Y	1 1			ļ		ļ	
5	VMA9387	SOLENOID BASE	2					-	
6	VSJ0216	BRAKE SOLENOID	2						
8-1	VEK7692	SENSOR HOLDER ASS'Y	2					-	
9	VXA6254	L SWITCH BASE B ASS'Y	1					ļ	
8	VXK1331	SUB CHASSIS	1					ļ	
0	VHD0995	SCREW	8						
5	VMA9784	LOCK PIN GUIDE PLATE	1				-	<u></u>	
			T						
			1						
1	VMX1061	WASHER	2						
52	VMX2391	CUT WASHER	1						
i3	XYN2+J5	SCREW	4						
54	X0N2+CF4	SCREW	2					Г	
55	XQN2+A3	SCREW	2		1				
56	VMX0967	CUT WASHER	3		1			1	
57	X0N2+CF3	SCREW	3						
58	XTV3+6F	SCREW	3						
59	X0N2+A2	SCREW	4					1	
	XYN2+K4	SCREW	1	***************************************				1	
50	XQN2+CJ5	SCREW	1					1	
51	XQN23+AJ5FZ	SCREW	1		l				1,000
32	AUNZ3+AJ3FZ	SCHEII	+-					 	
			+-					1	
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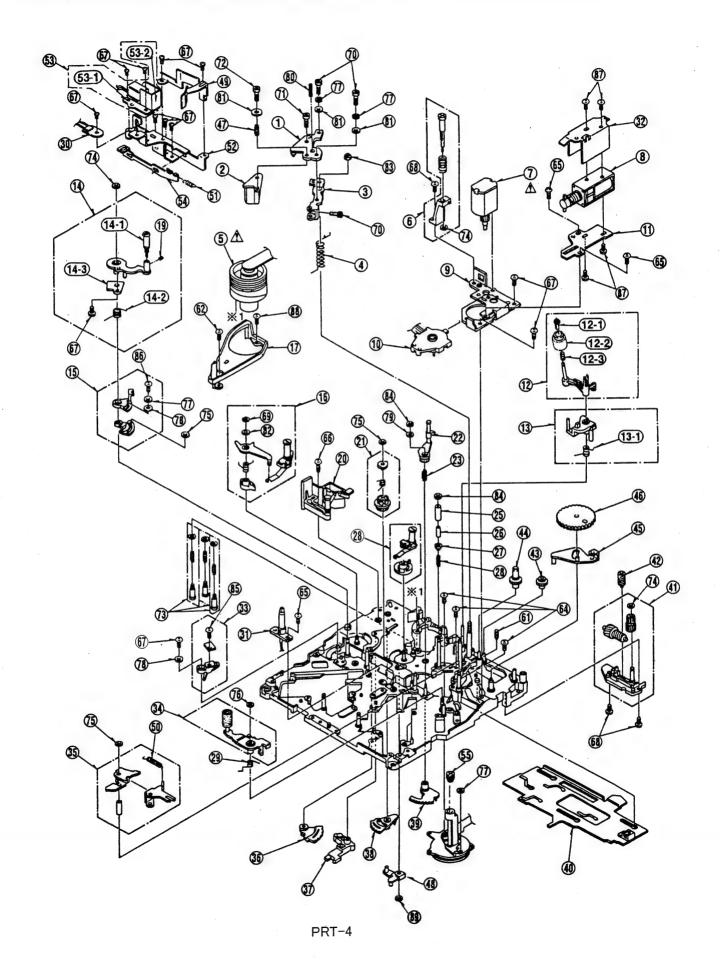


MECHANICAL CHASSIS ASSEMBLY(2)

AJ-D215P/HE_D200P/E

Ref. No.		Part Name & Description			Ref. No.	Part No.	Part Name & Description	Pes	Remarks
Ker. No.	Tall MO.	Tare Name & Description		RCHRI KS	68	XQN2+CF4	SCREW	1	Konderko
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1		69	XUC12FP	E-RING	2	
A	VED0419	A/C HEAD	1	(M)	70	XVE2B4FZ	HEX SCREW	3	
	VXA6067	A/C HEAD BASE (2) ASS'Y	1	7	71	XVE2B6FP	HEX SCREW	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1		72	XVE2B12FP	HEX SCREW	1	
5	VEG1499	CYLINDER UNIT	1	(M)	73	VXQ0439	SCREW	3	
6	VXA5715	EMARGENCY SHIFT HOLDER ASS'	1		74	VMX0967	CUT WASHER	2	
7	VEM0645	LOADING MOTOR (1) A ASS'Y	1	(M)	75	VMX1061	WASHER	3	
8	VSJ0227	PINCH SOLENOID	1	(M)	76	VMX1079	CUT WASHER	1	
9	VXA5584	MOTOR ANGLE ASS'Y	1		77	XWA2B	WASHER	4	AND
10	VES0918	MODE SW ASS'Y	1	(M)	78	XWE2	WASHER	1	
	VMA0A35	PINCH SOLENOID BASE	i	(1)	79	XWE16VW	WASHER	1	
11	VXL2924	CLEANING ARM A ASS'Y		(N)	80	XXE2A6FP	HEX SCREW	1	THE R THE SECOND
************		CLEANER ROLLER HOLDER	-	(m)	81	XWG2	WASHER	2	
12-1	VMX2150	CLEANER ROLLER ASS' Y	+-;		82	XWGV15Z32G	WASHER	1 2	
12-2	VXP1963				83	VHD0045	NYLON NUT		
12–3	VMB3114	CLEANER ROLLER SPRING	+:					+;	
13	VXL2870	T2 ARM ASS'Y			84	VHN0312	NUT	1 2	
13-1	VMB3304	T2 ARM SPRING	1		85	XQN2+AQ3.5FZ		1	
14	VXL2831	TENSION ARM A ASS'Y	1	(M)	86	XQN2+AJ5	SCREW	1_1	
14-1	VXP1761	TENSION ROLLER	1		87	XQN2+A15	SCREW	1 4	
14-2	VMB3220	TENSION LEG SPRING	1		.88	XON2+A4	SCREW	1 1	
14-3	VXA6173	MAGNET HOLDER ÁSS'Y	1		89	VMX1394	CUT WASHER	11	
15	VXA5791	TENSION LEG SPRING HOOK ASS	1		*	VXY1433	MECHANISM	1	
16	VXL2709	S1 LOADING ARM ASS'Y	1	(N)	*	VXY1264	MECHANISM		
17	VMD2533	LOADING RAIL	1		*	VXY1287	MECHANISM		(M)FOR AJ-D200HE
18	VXA6378	T1 BOAT ASS'Y	1	(M)				T	
19	VHD0561	HEX SCREW	1		***************************************			1	
20	VXA6052	S POST BASE A ASS'Y	1	(M)				1	
21	VXP1683	T4 CONNECTION GEAR ASS'Y	1					1	
22	VXL2772	T4 ARM ASS'Y	1			1		+	
	VMB2950	T4 THRUST SPRING	-			·			
23	,	T LOADING ARM N ASS'Y	1						
24	VXL2898		-		l 	 		+	
25	VMS5906	T3 UPPER FRANGE	+		ļ			+-	
26	VMS5905	T3 SLEEVE				ļ		+-	
27	VMS5904	T3 LOWER FRANCE	1						
28	VMB2929	T3 SPRING	1					-	-
29	VMB2933	PINCH RELEASE SPRING	L					+	
30	VEK7927	INSULLATION SENSOR	1					+-	
31	VEK7691	LED HOLDER P. C. BOARD	L					1	
32	VMA9411	PINCH SOLENOID ANGLE	1						,
33	VXA5820	TENSION SENSOR ASS'Y							
34	VXL2835	PINCH ARM ASS'Y		(M) .				L	
35	VXL2588	PINCH GUIDE ARM ASS'Y	1						
36	VXA5570	T SECTOR GEAR ASS'Y							
37	VXL2838	TENSION LEG. GUIDE ARM	1						A Property of the Control of the Con
38	VXA5567	S SECTOR GEAR ASS'Y	1					1	
39	VXA5564	T4 SECTOR GEAR ASS'Y	1					1	
	VXA6348	MAIN ROD ASS'Y	+					1	
40		THRUST SHAFT HOLDER ASS'Y	+					+-	
41	VXA5627	MOTOR WARM GEAR	+-		l			+-	
42	VDG1166							-	
43	VDG1268	MOTOR EMARGENCY GEAR A(A)	-					+	
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1		l			+	
45	VXL2889	MAIN CAM ARM ASS'Y	+	(70)	 			+	
46	VDG1168	MAIN CAM GEAR	-	(M)	l			+-	
47	VMB2937	A/C HEAD ADJUST SPRING	1		 			+	
49	VMD3475	T1 GUIDE ASS'Y	1				4		
50	VMB2934	SPRING	L			_		-	
51	VMB3051	CLEANER RETURN SPRING						1-	
48	VXL2600	EJECT ARM ASS'Y						ļ	
52	VXA6077	CLEANER BASE 1 ASS'Y						1	
53	VXA6078	CLEANER SOLENOID ASS'Y					71		
53-1	VSJ0226	CLEANER SOLENOID	1	(M)				I	
53-2	VMA9877	CLEANER SOLENOID BASE	†			T		1	
54	VMM0429	CLEANER INSULATTION	+					T	
55	VXQ0556	THRUST SCREW ASS'Y		(M)				1	
		SILENCER PAD A	+			·		1-	
58	VMT0871	SILENCEN PAU A	-			 		+	
		in the second se	+				THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TO THE OWNER, THE OW	1	
		4	-					+	
			1	and the second s					
61	VHD0356	SCREW						 	
62	XQN2+A3	SCREW	1			<u> </u>		ļ	
62	XQN2+A35FZ	SCREW	3	The contract of the contract o		L		-	
64		SCREW	3		ļ			1	
	XQN2+AM2					l .	i .	1	I .
64	XQN2+AM2 XQN2+AM4	SCREW	1					1	
64 65		SCREW SCREW	12					ŀ	

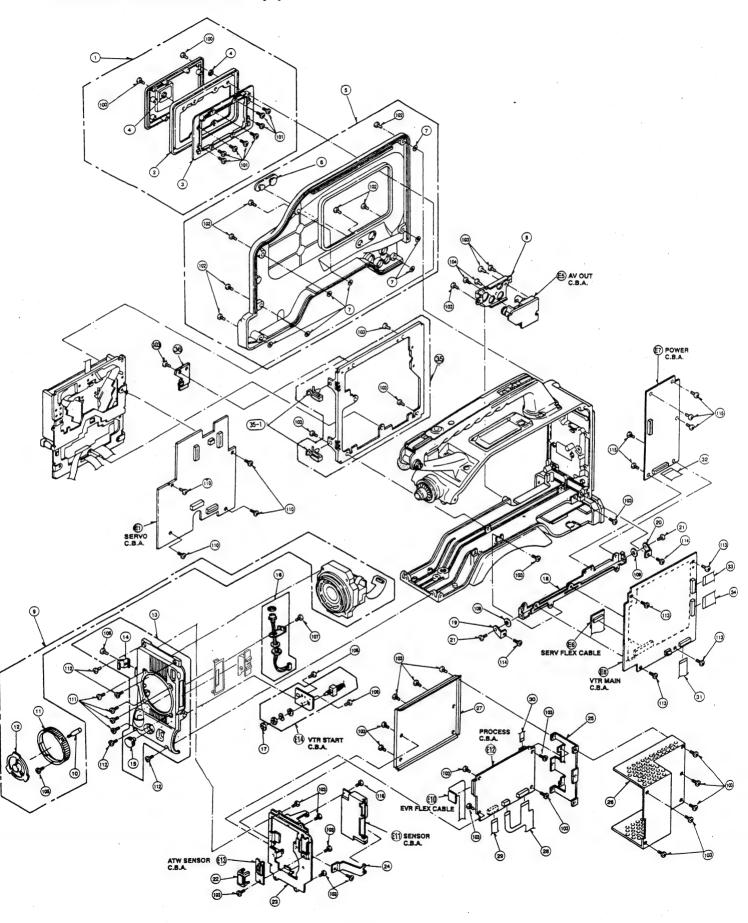
MECHANICAL CHASSIS ASSEMBLY(2)



FRAME ASSEEMBLY(1)

Ref.No.	Part No.	Р	CS	Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
		CASSETTE COVER ASS'Y CASSETTE COVER ASS'Y		FOR AJ-D215P FOR AJ-D215HE					
	7 11 2000	CASSETTE COVER WATERPROOF RI	1	OT AO-DZTJILL	***************************************		4.8		
		CASSETTE COVER ASS'Y	1	FOR AJ-D200P/HE					
3		CASSETTE RUBBER HOLDER	1				angan manakan dan menangkan manakan menangkan menangkan menangkan menangkan menangkan menangkan menangkan menan	-	
4	V M X2605	WASHER	2				Artic constitution of the Contract of the Cont	-	a company of the second
5	VYK8966	SIDE CASE (L) ASS'Y		FOR AJ-D215P/HE FOR AJ-D200P				 	
5	VYK7626 VMG0953	SIDE CASE (L) ASS'Y E-E CAP	- 1	TUR AJ-DZUUF			a a see con con the transfer of the		
5	VYK8132	SIDE CASE (L) ASS'Y	1	FOR AJ-D200HE	en minimissionenism				be) the side of the second sec
7		NYLON WASHER	7					Ι.	and the second s
8	VMP5374	SIDE JACK HOLDER ANGLE	1					ļ	
9	VYQ1702	HEAD OPTICAL ASSEMBLY		FOR AJ-D215P	- mingramida		and the same and t	1.	Color management in coloring and an in a second coloring of the seco
9	VY01761	HEAD OPTICAL ASSEMBLY HEAD OPTICAL ASSEMBLY		FOR AJ-D215HE FOR AJ-D200P				+	
9	VYQ1402 VYQ1438	HEAD OPTICAL ASSEMBLY		FOR AJ-D200HE					
10	VHD0809	LENS MOUNT RING KNOB	1	1011 100 0200112			the state of the s		
11	VDW0472	LENS RING	1						AND THE PROPERTY OF THE PROPER
12	VKF2726	MOUNT CAP	1					-	
13	VYK8964	MOUNT CASE (1) ASS'Y	1						
14	VJF0804	CABLE CLAMPER	1					-	
15	VGU8140 VEK8181	VTR START KNOB LENS CABLE	1					1	
16 17	VEK8181 VMG0646	WATERPROOF SW INSULATION SHE	1				THE STATE OF THE PROPERTY OF T	1	The second secon
18	VXA5958	PROCESS P.C.B. HOLDER ANGLE	1						
19	VMP4273	C.B.A. ROTATE ANGLE (L)	1					-	A THE RESIDENCE OF THE PROPERTY OF THE PROPERT
20	VMP4274	C.B.A. ROTATE ANGLE (R)	1	***************************************				+	
21	VHD0325	SCREW	2				AND AND ADDRESS AND ADDRESS OF THE PARTY OF		The state of the s
22	VKW2024	AWT SENSOR WINDOW P.C.B. HOLDER ANGLE	1						
23 24	VMP5371 VMP5404	SENSOR P. C. B. HOLDER ANGLE	1						
25	VSC4644	SHIELD CASE (1)	1					I	
26	VMP5372	C.B.A. SUPPORT ANGLE	1					_	
27	VSC4645	SHIELD CASE (2)	1						
28	VJB00Y57	CAMERA VTR FLEX. P.C.BOARD	1		l				
30	VWJ26E5055L0 VWJ14E5140L0	FLEXIBLE CABLE ATW SENSOR FFC	1					-	
31	VWJ14C2280L0	FLEXIBLE CABLE	1	\$100\$000000000000000000000000000000000					
32	VWJ26C2360L0	FLEXIBLE CABLE	1						
33	VWJ25C2040L0	FLEXIBLE CABLE	1						
34	VWJ25C2130L0	FLEXIBLE CABLE	1				and an analysis of the second		
35	VXA5923	SUB PLATE ASS'Y CLAMPER	1						
35–1 36	VGQ0107 VMP5488	SUPPORT ANGLE	1						
37	VGQ5316	KNOB BASE	1						
38	VGU8169	FILTER KNOB	1	AJ-D215P/HE			***************************************		and the state of t
39	VMT1027	FLEX GUARD	1						
40	VMZ2765	CUSHION			<u> </u>			+-	THE RESERVE OF THE PROPERTY OF
		······································	ļ						
······································	*:		-						
100	XSB26+16FZ	SCREW	2						
101	XTB26+6GFZ	SCREW	. 8					-	
102	XSB3+10FZ	SCREW	20		I			+-	
103	XYN3+C6	SCREW	28	friends and the second	l			+	
104	XTV3+6GFZ XQN2+A4FZ	SCREW	1		1				
106	XSB2+5FZ	SCREW	ī						
107	XYN26+C6	SCREW	1						
108	XYN3+K6RS	SCREW	2						A. in the same of
109	XWGV4Y12G	WASHER	- 2	management artists of the control of			and a residence of the contract of the contrac		
110	XYN26+K6	SCREW SCREW	4					+-	
111	XSB3+6FZ XSB3+12FZS	SCREW		and the second of the second o	11		1 10 1000	1	
114	VHD0325	SCREW	2					1	
115	XYE3+EF6R	SCREW	. 5		11		and the second second		
116	XYN2+C4	SCREW	1						
		en de la companya de		· thin		. -			
	nation.		-	des record a real region constitution to constitute a region of the regi	L			1-	n
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FRAME ASSEEMBLY(1)



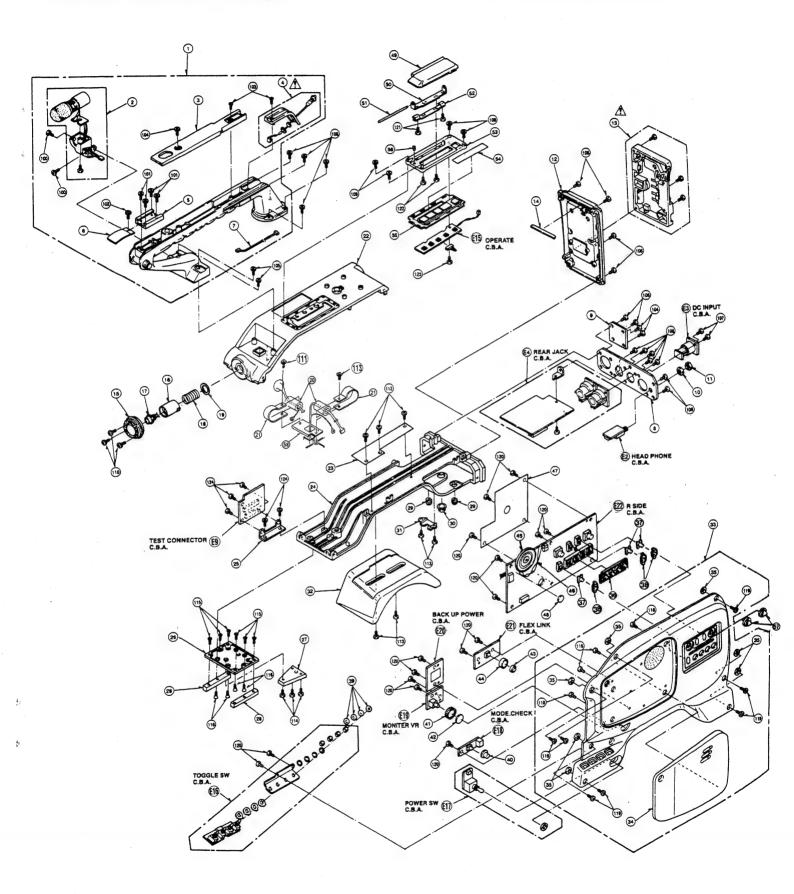
Components identified with the mark \triangle have the special characteristics for safety. When replacing any of these components, use only the same type.

FRAME ASSEEMBLY(2)

AJ-D215P/HE_D200P/E

	Doret No.	Part Name & DescriptionPc	:8	Remarks	Ref.No.	Part No.	Part Name & Description)cs	Remarks
Ref.No.	Part No.	Tate Name & Describition C	1		110	XYN26+K16FZ	SCREW	4	
	0410050	HANDLE	1		112	XSB3+4	SCREW	3	
	VYH0259	MIC ASS' Y	1		113	XYN3+F8	SCREW	2	
	VEK6714		1		114	XSB4+6FC	SCREW	3	April 10 and 10
I.	VKF2721	HANDLE COVER	1	NAME OF ROOM OF THE PARTY OF TH	115	XTS26+6J	SCREW	6	
	VYF1888	TALLY COVER	1		116	XSS3+8FZ	SCREW	4	
5	V5MA0046A4	CAMERA SHUE	-11		117	XYN26+C8FZ	SCREW	2	
6	4G28145	SPRING	. 4	MI II AND THE REAL PROPERTY AND ADDRESS OF THE PERSON OF T	118	XTV3+6GFZ	SCREW	4	Communication of the Communica
7	VEE0A89	MIC CABLE	1			XSB3+10FZ	SCREW	7	
8	VJH0986	JACK PLATE	.1	The same determinant over the state of the same and the same of th	119		SCREW	1-2	
9	VGF0689	BLANK PLATE	1		120	XYN3+K6RS		2	
10	VMX0531	CLATCH SPACER	1	and the second s	121	XTB26+4FFZ	SCREW	2	
11	VHN0194	SPACER	1	and the same a second order same agent or	122	XTV26+5F	SCREW	1	
and the second second second second second	VGM1058	REAR CASE	1		123	XTN2+5J	SCREW		
12	VJF1347	BATTERY HOLDER	1				The second of the copy and deleted and the second is not proposed white at	1	and the second control of the second control of
13		BATTERY CABLE HOLDER	1	Acres Anna Comment Comment of the Anna Comment of Section Comment of Comment					
14	VGF0515	EVF HOLD BASE	1					!	
15	VGQ3454								A LANGUAGE CONTROL OF THE PARTY
16	VGQ3455	EVF CONNECTOR HOLDER					The second secon		
17	VEE0A87	EVF CABLE	1	***************************************					
18	VMB2224	TENSION SPRING	1				A CONTRACT OF THE PARTY OF THE		THE RESIDENCE FOR MARKET AND ADDRESS OF THE PARTY OF THE
19	VGF0514	VF CONNECTOR HOLDER PLATE	1						
20	VLP0186	FERRITE CORE	2						
	VJF0980	CLAMPER	2						Annual An
21	VGM1057	TOP CASE	1						,
22		FLEXIBLE HOLDER	1	***************************************				-4	The second of the second second of the second secon
23	VGQ4441	BOTTOM CASE	1						
24	VGM1390								
25	VMP5375	C.B.A. ANGLE	1					1	THE RESERVE THE THE PARTY OF TH
26	VGM1277	FRONT FOOT BASE					THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS		
27	VGM1278	FRONT V EDGE	1	***************************************					
28	VKA0299	FRONT FOOK	2				and and otherwise of the control of	-	The second of the second secon
29	VMG0954	REAR FOOT	2						
30	VMG0643	BRAKER CAP	1						
31	VMP4896	BACK LOCK ANGLE	1					-	
	VMT0768	SHOLDER PAD	- 1						***************************************
32		SIDE CASE (R) 1 ASS'Y	1 F0	R AJ-D215P					
33	VYP7269	SIDE CASE (R) 1 ASS' Y		R AJ-D200P					
33	VYP6505			AJ-D215HE				_	
33	VYP7270	SIDE CASE (R) 1 ASS'Y		R AJ-D200HE					
33	VYP6654	SIDE CASE (R) 1 ASS'Y	IIFO	AJ-DZOUHE	_				The state of the s
34	VMT0826	FACE PAD	11						
35	VMX1558	NYLON WASHER	7					+	
36	VG03415	OPERATION BUTTON HOLDER	1						
37	VGU6028	SLIDE KNOB (A)	3						
	VMG0947	SLIDE KNOB RUBBER	3						
38		WATERPROOF SW INSULATION SHE	8 4						
39	VMG0646	MODE CHECK BUTTTON	1						
40	VGU4906		1-1	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, WHEN THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, WHEN THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, WHEN THE OWNE			100000000000000000000000000000000000000		
41	VGU5694	VR KNOB		***************************************					
42	VGH3360	VR KNOB CAP A							
43	VGU6511	PUSH BUTTON	111					-	
44	VGQ3417	PUSH BUTTON HOLDER A	1						
45	EAS2P104N	SPEAKER	1				THE PROPERTY OF THE PROPERTY AND ADDRESS OF THE PROPERTY OF TH		
46	VEE0A98	SPEAKER CABLE	1						
	VSC4659	OPERATION SHIELD PLATE	1						
47		CUSHION	1	***************************************			The second secon	-	
48	VMT0539		11						
49	VK₩1642	KEY BOARD DOOR	+ :-	*					
50	VMP3736	DOOR ANGLE	1						
51	VMS4947	OPERATION SHAFT							
52	VMC0883	DOOR SPRING							
53	VGK2058	KEY OPERATION PANEL	1					-	
54	VGH4193	KEY BOARD PLATE	1						
55	VGU6577	KEY BOARD BUTTON	1				and the second of the second o		The second section of the second section of the second section of the second section section is
	VMG0657	CUSHION RUBBER	1	A STATE OF THE PARTY OF THE PAR			and the same of th		
56		VR KNOB	2 F	OR AJ-D215P/HE					
57	VGU6512	FERRITE CORE FIXING METAL	11		TI I				
58	VMP4579	CENTILE CONE FIXING METAL	+ +	AND THE RESIDENCE WHEN THE RESIDENCE WAS AND A SECOND PROPERTY OF THE PERSON AND ASSESSMENT OF THE PERSON					
		the state of the s	1	and the second s			and the contract of the contra		
								-	
100	XSB3+8FZ	SCREW	2		<u> </u>				
101	XSN2+6FZ	SCREW	4						to the second se
~	XSN26+4FC	SCREW	1						
102		SCREW	2						
4.7.7	XSS3+6FZ	and a second of the second of	- 3	make the to the second property	- ANT AND	1			
103	XSB3+6FZ	SCREW	2						
103 104	1	SCREW	- 2	According to the second					
*** ***********************************	XSB4+16FZS							- 1	
104	XSB4+16FZS XSB3+8FZ	SCREW	4				1	1	1
104 105 106	and the second	SCREW	2				and the last of th		
104 105 106 107	XSB3+8FZ XSN26+6FC	SCREW	2 5				- ,	-	
104 105 106	XSB3+8FZ	the property and the second of				- 479	- ;		

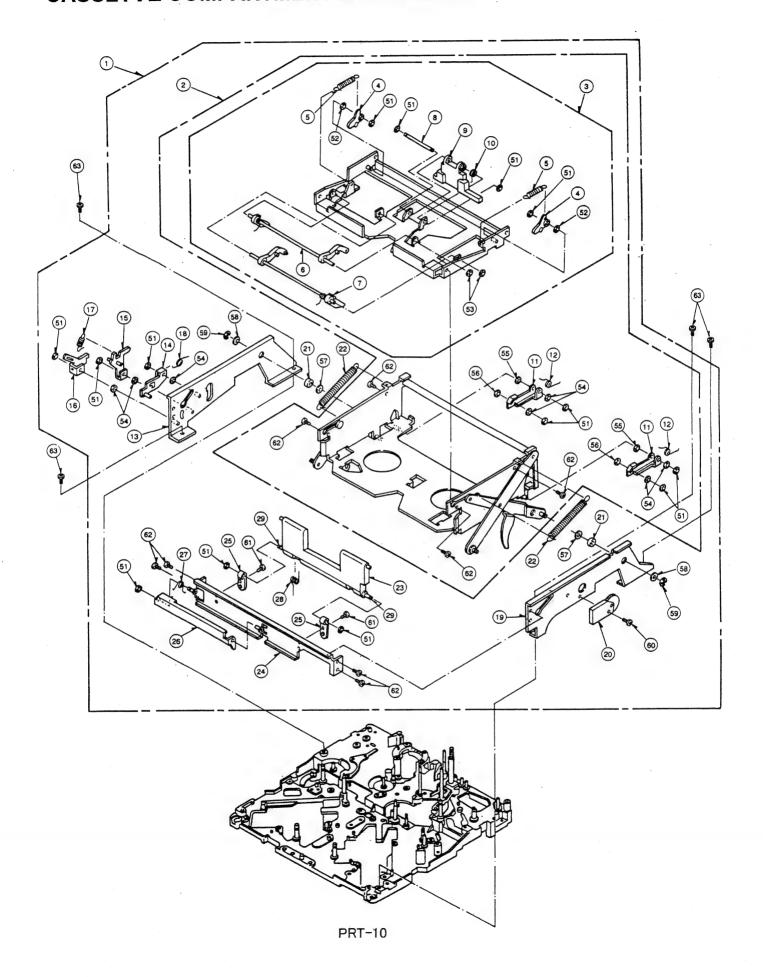
FRAME ASSEEMBLY(2)



CASSETTE COMPARTMENT ASSEEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5900	CASSETTE UP ASS' Y	1	(M)					
2	VXA5901	HOLDER	1						
3	VXA5904	TOP PLATE	1						
4	VXL2696	PRESSURE LEVER	2	er consistent and entered conservations and a conservation of the conservation (entered conservation of the con-			a company of the comp		
5	VMB3063	PRESSURE LEVER SPRING	2	27					
6	VXA5896	PROTECTOR SHAFT (2) L	1	7 7					, inc.
7	VXA5897	PROTECTOR SHAFT (2) R	1						
8	VMS6198	PROTECTOR SHAFT	1						1,214
9	VMD2789	PROTECTOR SHAFT (1)	1	- and a single comments are an extension of the single comments of t			The species of the second seco	1	
10	VMB3135	SHAFT RELESE SPRING	1	Section 5.				Ī	
11	VML3259	RELEASE LEVER	2						465
12	VMB3140	LOCK RELEASE LEVER SPRING	2	and the second s					
13	VXA5922	SIDE PLATE (L)	1						
14	VXL2740	RATCHET ARM	1						
15	VXL2765	RATCHET LOCK LEVER	1	AND	400				
16	VXL2766	RATCHET LEVER	1	***					
17	VMB2981	RATCHET SPRING	1						
18	VMB3146	LOCK LEVER SPRING	1						
19	VMA9719	SIDE PLATE (R)	1						And the second s
20	VDG0387	DUMPER	1				,		
21	VDP0967	MAIN ARM ROLLER	2						37.00.50
22	VMB3133	UP SPRING	2						
23	VXA5925	PROTECTOR PLATE	1						
24	VXA5898	BACK PLATE	1						
25	VMD2793	SHAFT	2					1	
26	VML3267	RATCHET TIMING LEVER	1					1	
27	VMB2982	SPRING	1					1	
28	VMB3134	PLATE RELEASE SPRING	1					1	
29	VMS6211	PROTECTOR PLATE SHAFT	1					1-	
30	VMD0997	HOLDER GUIDE	1						
			ļ			***************************************			
			1		***************************************		100	1	
								1	
51	VMX0967	CUT WASHER	14					1	
52	XWGV2D5G	WASHER	2						
53	VMX1079	CUT WASHER	2						
54	XWGV2Y5G	WASHER	7					1	
55	XWGV2Z5G	WASHER	2					t	
56	XWGV2F5G	WASHER	2					\vdash	
57	XWGV4Y6G	WASHER	2		<u> </u>			†	
58	XWGV3Y6G	WASHER	2	A PROPERTY OF THE PROPERTY OF				1	
59	XUC2FP	E-RING	2					\vdash	
60	XYN2+C8	SCREW	1					†	
61	XQN2+A4	SCREW	2			-			
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CASSETTE COMPARTMENT ASSEEMBLY

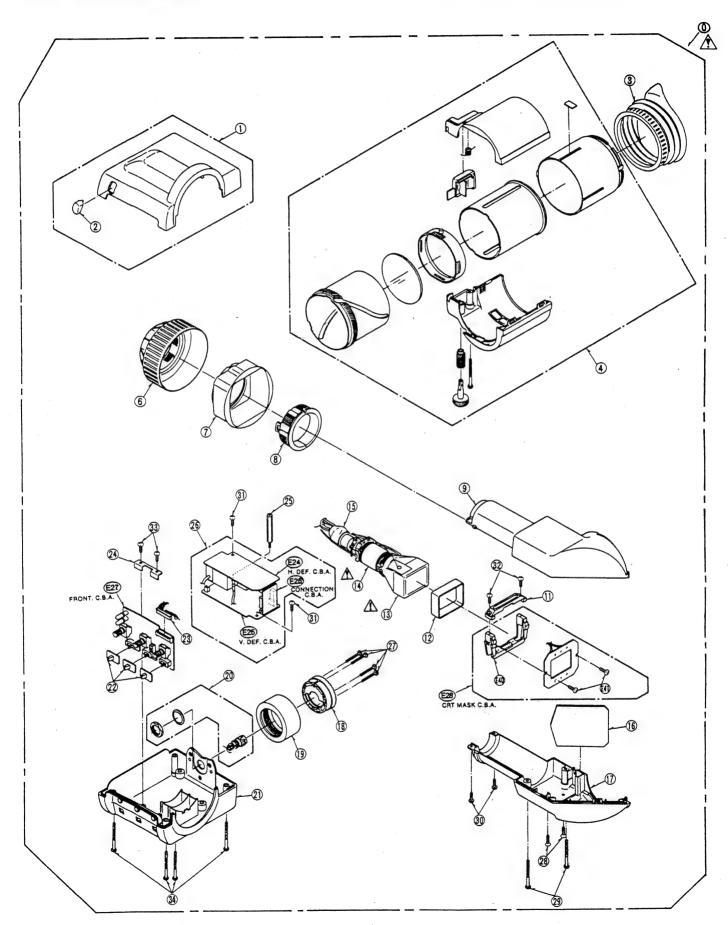


EVF ASSEEMBLY

AJ-D215P/HE_D200P/E

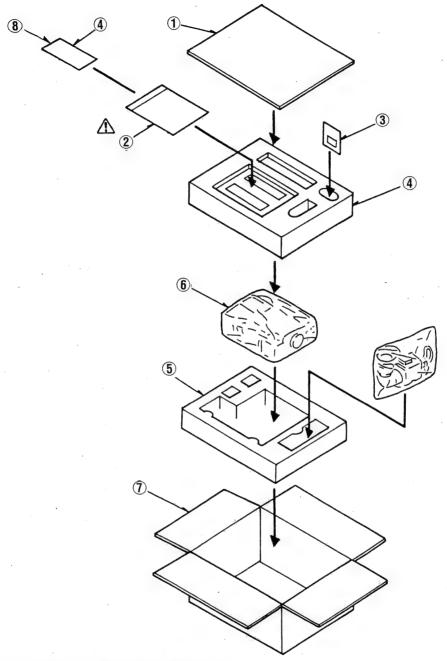
0	Part No.	Part Name & Description	Ccs Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
1	VEQ1710	1.5" EVF ASS'Y	1 FOR AJ-D215P/D200P	·				
	VEQ1549	1.5" EVF ASS'Y	1 FOR AJ/D215HE/D200HE	1			-	
			1 FOR AJ-D215P/D200P	- I			-	
		EVF MAIN CASE UPPER ASS'Y						
		EVF MAIN CASE UPPER ASS'Y	1 FOR AJ/D215HE/D200HE				<u></u>	
	VGP3621	TALLY LAMP COVER	1					
	VMG0799	RUBBER CAP	1			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	***************************************
	VYC0608	EYECAP PIECE ASS'Y	1	1			-	
			1				-	
	VGP3619	LOCK RING (OUT)	I			N. C. ST. ST. ST. ST. ST. ST. ST. ST. ST. ST	ļ	
	VMX2305	LOCK RING SPACER	1	11				1
	VGP3620	LOCK RING (IN)	1				1	
	VYK7856	CRT CASE UPPER	1				 	
							ļ	
	VJF0899	CRT HOLDER (2)	1	11		1		
2	VMX1899	CRT SPACER	1				T	THE PARTY OF THE P
	M04KYS07WB	CRT	1	-			t	
,		DEFLECTION YOKE	1				+	
							 	
	VEK7034	CRT SOCKET	1				1_	
3	VDL0417	MIRROR	1	11			1	
	VYK7857	CRT CASE BOTTOM	1	1			1-	
	VG03433	EVF GEAR	1	1			 	
8							ļ	
9		EVF FIX. RING	1	1			_	
0	VEK7037	EVF INTERFACE CABLE	1	J L			1	
1	VGM1143	VF BOTTOM CASE	1	11			1	
2	VGU3364	SLIDE KNOB	3	1	<u> </u>		†	***************************************
								_
3	VEE8849	FRONT CABLE	1				ļ	
4	VMP4283	C.B.A. HOLDER	1				1	
5	VMX2308	SPACER	1					
<u> </u>				11			1	
		<u> </u>			material control of the control of t		+-	·
	L				<u> </u>		ļ	
7	XYN3+C14FZ	SCREW	4				T	T/
8	XTS2+6GFZ	SCREW	2	1			1	
			2				-	
9	XTN3+25GFZ	SCREW		11			-	
0	XTN2+6G	SCREW	2					
	XYN26+K6FR	SCREW	2					
2	XTN2+10G	SCREW	2				1	
3	XTN3+6G	SCREW	2	11		1	+	
			4				 	***************************************
4	XTN3+28GFZ	SCREW	4	11	ļ		-	
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EVF ASSEEMBLY



PRT-12

PACKING PARTS ASSEEMBLY



PACKING PARTS ASSEEMBLY

AJ-D215P/HE_D200P/E

Ref.No.	Part No.	Part Name & Description	es Remarks	Ref.No.	Part No.	Part Name & Description	cs Remarks
RC1. HO.	1 (11 (1111)		alian and a second and a second			mining and the second s	
1	VPN3922	TOP PAD	1				
<u>/</u> 2	VQT8067	OPERATING INSGRUCTIONS	1 FOR AJ-D215P				
	VQT7073	OPERATING INSGRUCTIONS	1 FOR AJ-D200P				
<u> </u>	VQT8068	OPERATING INSTRUCTIONS	1 FOR AJ-D215HE				
	VQT7074	OPERATING INSGRUCTIONS	1 FOR AJ-D200P (FRENCH)				
	VQT7284	OPERATING INSGRUCTIONS	1 FOR AJ-D200HE			and the second of the second o	
	VEJ1672	BATTERY ADAPTOR ASS'Y	1				
4	VPN4613	CUSHION (UPPER)	1				
5	VPN4614	CUSHION (LOWER)	1				
6	VPF0724	POLYETHYLENE BAG	1 FOR AJ-D215P/D200P				
	VPF0884	POLYETHYLENE BAG	1 FOR AJ-D215HE/D200HE				
L	VPG9925	PACKING CASE	1 FOR AJ-D215P/HE				
7	VPG8916	PACKING CASE	1 FOR AJ-D200P			THE COLUMN TO ADMINISTRATION OF THE PARTY OF	
7	VPG8917	PACKING CASE	1 FOR AJ-D200HE				ALL PROGRAMMENT CONTRACTOR CONTRACTOR DESCRIPTION OF THE CONTRACTOR OF THE CONTRACTO

PRT-13

lef.No.	Part No.	Part Name & DescriptionPo	es Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
		OCENIA D. C. PALID	1 (RTL)FOR AJ-D215P/HE	■ E1	VEP82223A	SERVO P.C.BOARD	1	(RTL)FOR AJ-D215P/HE
	VEP82223A	SERVO P. C. BOARD	1 (RTL)FOR AJ-D200P	■ E1	VEP82212A	SERVO P. C. BOARD	1	(RTL)FOR AJ-D200P
	VEP82212A	SERVO P. C. BOARD		■ E1	VEP82212B	SERVO P. C. BOARD	+;	(RTL)FOR AJ-D200HE
E1	VEP82212B	SERVO P.C.BOARD	1 (RTL) FOR AJ-D200HE 1 (RTL) FOR VEP82212A/B		VEP80B09A	VM. LIMIT P. C. BOARD	-	(RTL)FOR VEP82212A/B
	VEP80B09A	VM. LIMIT F. C. DOAND	** (**********************************					((),)
■ E2	VEP00W08B	HEAD PHONE P.C.BOARD	1 (RTL)		FOLIVIETO MON	A SUBJECTION OF ACTUAL ACTUAL		F00 1/50000001
		DO LADUT D C DOADD	1 (RTL)FOR AJ-D215P/D200P	C1 C100, 01	ECEVOJV330Q	C. CAPACITOR CH 25V 0.1U E. CAPACITOR CH6.3V 33U	-	FOR VEP80B09A
■ E3	VEP80A44A	DC INPUT P.C.BOARD DC INPUT P.C.BOARD	1 (RTL)FOR AJ-D215HE/D200HE	C103	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	1
E3	VEP00X87C	DC INFOT F.C.BOAND	T (TTE) TOTAL AD SET STEP SECOND	C107	ECUX1C105KBM	C. CAPACITOR CH 16V 1U		
- - - - - - - - - -	VEP84297B	REAR JACK P. C. BOARD	1 (RTL)FOR AJ-D215P/D200P	C108	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
■ E4	VEP84297C	REAR JACK P. C. BOARD	1 (RTL)FOR AJ-D215HE/D200HE	C109	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	1
L4	711 0-12370			C110	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	1
E 5	VEP80A43A	AV OUT P.C. BOARD	1 (RTL)FOR AJ-D215P/D200P	C111	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P	1	1
■ E5	VEP80A75A	AV OUT P.C.BOARD	1 (RTL)FOR AJ-D215HE/D200HE	C113	VCE0180	E. CAPACITOR		1
			1.3	C116	VCE0180	E. CAPACITOR		1
■ E6	VEP00Y56A	SERVO FLEX P.C.BOARD	1 (RTL)	C119-21	ECEV1CV1000	E. CAPACITOR CH 16V 10U		
				C123	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	
■ E7	VEP81179A	POWER P.C.BOARD	1 (RTL)	C124	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P		1
			1/OTI) FOR 11 POLES	C125	ECEVICV1000	E. CAPACITOR CH 16V 10U	-	1
■ E8	VEP83356D	VTR MAIN P.C.BOARD	1 (RTL)FOR AJ-D215P	C126	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	+	1
E8	VEP83356E	VTR MAIN P.C.BOARD	1 (RTL)FOR AJ-D215HE 1 (RTL)FOR AJ-D200P	C127 C128	ECUX1H103KBV ECUX1H101JCV	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 100P	+	1
■ E8	VEP83356A	VTR MAIN P.C.BOARD VTR MAIN P.C.BOARD	1 (RTL)FOR AJ-D200P	C128	ECUX1H1013CV ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	+	1
■ E8	VEP83356B	VIR MAIN F.C. BOARD	TI (RIE/T ON AS-DECONE	C130	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	+	1
— FO	VEP86258A	TEST PLUG P.C.BOARD	1 (RTL)FOR AJ-D215P/D200P	C133	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	-	1
■ E9 ■ E9	VEP86258B	TEST PLUG P. C. BOARD	1 (RTL) FOR AJ-D215HE/D200HE	C134	ECEV0JV3300	E. CAPACITOR CH6.3V 33U	+	1
E E9	VEP 80238B	1231 7 200 1 7 0 7 0 7 0 7 0		C135	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U		1
■ E10	VEP00Y55A	EVR FLEX P.C.BOARD	1 (RTL)	C137,38	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U		2
E LIU	TEL OUT GON			C139	ECEV1EV2200	E. CAPACITOR CH 25V 22U		1
■ E11	VEP22146A	SENSOR P.C.BOARD	1 (RTL)FOR AJ-D215P/D200P	C140,41	ECUX1C105KBM	C. CAPACITOR CH 16V 1U		2
■ E11	VEP22251B	SENSOR P.C.BOARD	1 (RTL)FOR AJ-D215HE/D200HE	C143	ECEV0JV3300	E. CAPACITOR CH6.3V 33U		1
				C144-46	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U		3
■ E12	VEP23285B	PROCESS P.C.BOARD	1 (RTL)FOR AJ-D215P/D200P	C147	ECUX1H102JV	C. CAPACITOR CH 50V 1000P		1
■ E12	VEP23422B	PROCESS P. C. BOARD	1 (RTL) FOR AJ-D215HE/D200HE	C200-04	VCE0180	E. CAPACITOR		5
				C207	ECEV0JV2200	E. CAPACITOR CH6. 3V 22U		1 .
■ E13	VEP80A32A	ATW SENSOR P. C. BOARD	1 (RTL)	C208-10	ECUX1H103KBV			3
			1/07)	C211 C212, 13	ECUX1E104KBN ECUX1H333KBN			2 .
■ E14	VEP00U25B	VTR START P.C.BOARD	1 (RTL)-	C212, 13	ECEVOJV2200	E. CAPACITOR CH6. 3V 22U		1
- F1E	VEP86143B	OPERATE P. C. BOARD	1 (RTL)	C218-20	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	+	3
■ E15	VEP80143B	OF EIGHT 1. C. BOALD		C221, 22	ECUX1H333KBN		-	2
■ E16	VEP80A15A	TOGGLE SW P. C. BOARD	1 (RTL)	C223	ECEV1HV2R20	E. CAPACITOR CH 50V 2.2U	1	1
				C224	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	T	1
■ E17	VEP80A16A	POWER SW P.C.BOARD	1 (RTL)	C228-30	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U		3
				C234-36		C. CAPACITOR CH 25V 0.1U	_	3
■ E18	VEP80A17A	MODE CHECK P. C. BOARD	1 (RTL)	C240		C. CAPACITOR CH 50V 3300P	1	1
				C241		C. CAPACITOR CH 16V 1U	1	1
■ E19	VEP80A18A	MONITOR VR P. C. BOARD	1 (RTL)	C242		C. CAPACITOR CH 50V 47P	-	1
			· (OT)	C243		C. CAPACITOR CH 50V 3300P		1
■ E20	VEP80A19A	BACK UP P. C. BOARD	1 (RTL)	C244 C245		C. CAPACITOR CH 50V 47P	+	1
	VED001011	FLEX RING P.C.BOARD	1 (RTL)	C246-48	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	+	3
■ E21	VEP80A21A	PLEX RING F.C. BOARD	(112)	C250	ECEVOJV3300	E. CAPACITOR CH6.3V 33U	+	1
■ E22	VEP86264A	R SIDE P.C.BOARD	1 (RTL)FOR AJ-D215P/HE/D200HE	C251		C. CAPACITOR CH 16V 1U	1	1
■ E22	VEP86259A	R SIDE P. C. BOARD	1 (RTL)FOR AJ-D200P	C252		C. CAPACITOR CH 50V 100P	1	1
	121 002334			C253		C. CAPACITOR CH 16V 1U		1
■ E23	VEP27086A	H DEF P.C.BOARD	1 (RTL)	C254	ECUX1H471JCV	C. CAPACITOR CH 50V 470P		1
				C255	ECUX1C105KBM	C. CAPACITOR CH 16V 1U		1
■ E24	VEP27087A	V DEF P.C.BOARD	1 (RTL)	C256	***	C. CAPACITOR CH 50V 470P	_	1
				C304, 05	VCE0180	E. CAPACITOR	-	2
■ E25	VEP27088A	CN P. C. BOARD	1 (RTL)	C307, 08		C. CAPACITOR CH 25V 0.1U		2
		1 to 10000 the 1000 to 100		C309	ECUX1H103KBV			1
■ E26	VEP27089A	FRONT P.C.BOARD	1 (RTL)	C310	VCC0037F432	C. CAPACITOR 432P	-	1
		ODT HACK D. A DALES	1 (PTI)	C311	ECUX1H103KBV		-	1
■ E27	VEP27090C	CRT MASK P.C.BOARD	1 (RTL)	C312 C318, 19	VCE0180	C. CAPACITOR CH 25V 0.1U E. CAPACITOR	-+	2
III F.C.	VEDOCOCCI	DDE CHIEELE D C DOVIDO	1 (RTL)FOR AJ-D215HE	C318, 19	ECUX1H333KBN			1
E28	VEP86286A	PRE SHUFFLE P.C.BOARD PRE SHUFFLE P.C.BOARD	1 (RTL)FOR AJ-D200HE	C321		C. CAPACITOR CH 16V 1U	+	1
■ E28	VEP83357A	THE SHOTTLE P.O. BUAND	THE TOTAL POPULATION	C323	ECEV1EV4R70	E. CAPACITOR CH 25V 4.7U	+	1
E Enn	VEP86280A	DVC PRO TERMINAL P. C. BOARD	1 (RTL) FOR AJ-D215HE	C324, 25		C. CAPACITOR CH 25V 0.1U	+	2
≡ E29	VEL DOZOUM	D. J. THO LEMINANE PROPERTY		C326	ECUX1C105KBM		1	1
				C327-29	ECUX1H103KBV		1	3

Ref. No.	Part No.	Part Name & DescriptionPo	T	Ref. No.	T	Part Name & Description	1	T
		C. CAPACITOR CH 50V 0.033U	1	D801-03		DIODE	3	3
		C. CAPACITOR CH 16V 1U	1	D807	MA142WK	DIODE	1	
		E. CAPACITOR CH 25V 4.7U	1	D811, 12	MA142WK	DIODE	2	
			2	D813	21DQ04	DIODE	1	do.
		C. CAPACITOR CH 16V 1U	11	D814-16	MA142WK	DIODE	3	3
	ECUX1H103KBV		3	D817-28	MA738	DIODE	12	2
			3	D829	NSQ03A04	DIODE	1	
	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4.7U	4	D830	MA8051-H	DIODE	1	
	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	D831,32	NSQ03A04	DIODE	2	2
(800)190000000000000000000000000000000000	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	D833	MA142WK	DIODE	1-	
	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	2	D834	MA8030-H	DIODE	1	FOR VEP82223A
	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	3	D835	MA142WK	DIODE		FOR VEP82223A
	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	4	D836	MA738	DIODE	1800	FOR VEP82223A
C407-10	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	4	D837	MA142WK	DIODE		FOR VEP82223A
	ECUX1H1025V	C. CAPACITOR CH 50V 0.01U	3				+-	A CONTRACTOR OF THE PARTY OF TH
C411-13	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3	161	TA75W393FU	lic	17	FOR VEP80B09A
C414-16			1	10100	MN6755486AH	lic		I FOR VEP82223A
C418	ECEV1HV3R3Q		1	IC100	MN6755486H8E	lic		1 FOR VEP82212A/B
C419	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	10100	SC371025AVFU	IC	+-!	1
C420	ECEV1HV3R30	E. CAPACITOR CH 50V 3.3U	4	IC101	UPC4556G2	IC	1-	1
C422-25	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		MN13821-Y	IC	+ 1	
C432	ECEV0JV3300	E. CAPACITOR CH6. 3V 33U	1	IC104		IC :		
C433	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	IC105	TC7W04FU XC62AP3002P	IC a.	+-	
C434	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	1	IC110				
C435	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	10200,01	AN3890FBS	IC	1	
C504	ECEV0JV3300	E. CAPACITOR CH6.3V 33U	1	IC202,03	MDC05	10	1	
C506	ECEV1CV1000	E. CAPACITOR CH 16V 10U		IC204, 05	NJM2904M	lic	2	Z
C507	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	1	IC207	NJM2904M	IC	+-1	1
C508-11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4 -	10208	TA75W393FU	1C		1
C514	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	IC209	NJM2904M	10	1	1
C515	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	1	10210,11	TA75W393FU	IC	1.	2 FOR VEP82223A
C517	ECEV1HV3R30	E. CAPACITOR CH 50V 3.3U	1	IC301	TL1451CNS	Ic		1
C518,19	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	2 .	1C302, 03	AN3841SR	IC	1	
C702	ECEV0JV3300	E. CAPACITOR CH6.3V 33U	1	IC401,02	TA75W393FU	IC		2
C703	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4.7U	1	1C403	NJM2904M	1C		
C704	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	1C404	MC14013BF	IC		
C705	ECEV1EV3300	E. CAPACITOR CH 25V 33U	1	1C406,07	UPC4558G2	IC	1 2	2
C706, 07	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	1C409, 10	NJM2904M	IC	1	2
C801	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	1C501	MN6755486AJ	IC		1 FOR VEP82223A
C804-08	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	5	1C501	MN6755486H8P	IC		1 FOR VEP82212A/B
C809	ECEVOJV330Q	E. CAPACITOR CH6.3V 33U	1	1C502	TC7WU04FU	IC .		1
C810,11	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	1C503	TA75W393FU	IC		1
C812,13	ECA12HG472L	E. CAPACITOR 4700U	2	1C701	TA75W393FU	IC		1
C817	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4.7U	1	1C702	BA6219BFP-Y	IC	T	1
C818, 19	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2 FOR VEP82223A	1C801	MC14538BF	IC		1
C820	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1 FOR VEP82223A	IC802	NJM2904M	IC	1	1
C821-23	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3 FOR VEP82223A	1C803	MC14538BF	IC		1
C825		C. CAPACITOR CH 50V 220P	1 FOR VEP82223A	1C804	MC74HC11F	IC	1	1
C842	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1 FOR VEP82223A	1C805	MC14049UBF	IC		1
C903-05	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	3	1C807	NJM2904M	lic'	1	1 FOR VEP82223A
C906	ECUX1H100DCV	C. CAPACITOR CH 50V 10P	1	10808,09		IC		2 FOR VEP82223A
							1	1
D100	MA142K	DIODE	1	L101	VLQ0319K101	COIL 100UH		1
D100 D101,02	MA142K MA143	DIODE	2	L102-04	VLQ0319K100	COIL 10UH		3
D101,02	MA736	DIODE	11	L200	VLQ0407120M	COIL 12UH		
D200, 01	MA143	DIODE	2	L201,02	VLQ0407151K	COIL 150UH	-	2
		DIODE	11 ,	L301	VLQ0214	COIL	+	
D202	MA728	DIODE	1	L302,03	VLQ0407151K	COIL 150UH		2
D203	MA736	DIODE	1	L501	VL00319K100	COIL 100H	+	
D204	MA728	DIODE	1	L701	VL00319K101	COIL 100UH	-	
D205	MA736	DIODE	2		1.20010/101	10001	+-	
D206,07	MA8047-H		1	-	VJP3949C080H	CONNECTOR (MALE)	+	1 FOR VEP82212A
D301	MA728	DIODE	1	P2	VJP3949A080H	CONNECTOR (MALE)	+	1
D302	MA736	DIODE	1				+-	1
D303	MA728	DIODE	1	P600	VJP3172D003	CONNECTOR (MALE)	+-	1
D304	MA736	DIODE	1	P601	VJP3172D002	CONNECTOR (MALE)		
D401	MA736	DIODE	1	P602	VJP3172D004	CONNECTOR (MALE)	+	1
D402-05	MA143	DIODE	4	P603	VJP3172D002	CONNECTOR (MALE)	-	1
D406	MA736	DIODE		P604	VJP3172D003	CONNECTOR (MALE)		
D502-04	MA142WA	DIODE	3	P605	VJP3518B002	CONNECTOR (MALE)	+-'	1
D505	MA142WK	DIODE	1	P606	VJP3172D003	CONNECTOR (MALE)	1 3	
D701	MA143	DIODE	1	P607	VJS3801B010	CONNECTOR (FEMALE)	!	<u> </u>
D702	MA3056-L	DIODE	1 FOR VEP82223A	P608	VJP3518B002	CONNECTOR (MALE)	1	
D702	MA3062-M	DIODE	1 FOR VEP82212A/B	P609	VJP3172D002	CONNECTOR (MALE)	1	IJ ∜
D703	MA738	DIODE	1	P610	VJP3518B003	CONNECTOR (MALE)	11	
D704	MA3056-L	DIODE	1 FOR VEP82212A/B	P611	VJP3518B002	CONNECTOR (MALE)	1	<u> </u>
	MA3051-M	DIODE	1 FOR VEP82223A	P612	VJP3172D004	CONNECTOR (MALE)	1	11
D705								

Ref. No.	Part No.	Part Name & Description	Pes	Remarks	Ref.No.	Part No.	Part Name & DescriptionPcs	Remarks
	VJS3406B015	CONNECTOR (FEMALE)	1		QR915	UN5214	TRANSISTOR-RESISTOR 1	A section of the sect
P614, 15	VJS3422B017	CONNECTOR (FEMALE)	2		QR917	UN5214	TRANSISTOR-RESISTOR 1	
P616	VJS3422B019	CONNECTOR (FEMALE)	1	CONTRACTOR OF THE CONTRACTOR O	QR919-23	UN5214	TRANSISTOR-RESISTOR 5	
P617	VJP1232T	CONNECTOR (MALE) 5P	1		QR925	UN5214	TRANSISTOR_RESISTOR 1	
P618	VJP3125B002	CONNECTOR (MALE)	1				in the second	The second secon
P619	VJP3809E060	CONNECTOR (MALE)	1		R1	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K 1	FOR VEP80B09A
P620	VJP3358C022	CONNECTOR (MALE)	1		R2	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K 1	FOR VEP80B09A
		And an analysis of the state of			R3	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K 1	FOR VEP80B09A
01,02	2SD1820-R	TRANSISTOR	2	FOR VEP80B09A	R4	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K 1	FOR VEP80B09A
0100,01	2SD1820R	TRANSISTOR	2		R5, R6	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2	FOR VEP80B09A
0103,04	2SD1820R	TRANSISTOR	2		R7	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K 1	FOR VEP80B09A
0105	2SB1219A-R	TRANSISTOR	1		R8, R9	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2	FOR VEP80B09A
0106	2SD1819A-R	TRANSISTOR	1	pr restablished i restablishe mar vermiter tilder star if in marris modellister exembesses median-facilities at an appeal accommodation.	R10	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680 1	FOR VEP80B09A
0200,01	2SB1073-R	TRANSISTOR	2		R102,03	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 2	
0203-06	2SD1820R	TRANSISTOR	4	FOR VEP82223A	R104	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K 1	
0301,02	2SB1073-R	TRANSISTOR	2	÷	R112	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K 1	
Q401	2SB1219A-R	TRANSISTOR	1		R118	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
Q502,03	2SD1819A-R	TRANSISTOR	2		R120-26	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 7	
0702	2SB1073-R	TRANSISTOR .	1		R128	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K 1	
Q703	2SD1624-S	TRANSISTOR	1		R130	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K 1	
Q811	2SB936A-Q	TRANSISTOR	1		R131	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K 1	
Q812	2SD1819A-R	TRANSISTOR	1		R132	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K 1	
Q815	2SD1819A-R	TRANSISTOR	1		R133	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K 1	
Q816,17	2SB1073-R	TRANSISTOR .	2		R134	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K 1	
Q818	2SB936A-Q	TRANSISTOR	1	FOR VEP82223A	R135	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 1	
Q819	2SD1819A-R	TRANSISTOR	1		R136	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K 1	
Q820	2SB1219A-R	TRANSISTOR	1		R137	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 1	
0821,22	2SD1624-S	TRANSISTOR	2		R138	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
0823	2SB1219A-R	TRANSISTOR	1		R139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K 1	
Q825	2SD1819A-R	TRANS ISTOR	1		R140	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K 1	
0826,27	2SB1073-R	TRANSISTOR	2		R141	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33 1	
0829	2SD1819A-R	TRANSISTOR	1		R142	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K 1	•
Q830	2SB1219A-R	TRANSISTOR	1		R143	ERJ8GEYJ271	M. RESISTOR CH 1/8W 270 1	
0831,32	2SD1624-S	TRANSISTOR	2		R144	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K 1	
Q833	2SB1219A-R	TRANS ISTOR	1		R145	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220 1	
Q835	2SD1819A-R	TRANSISTOR	1		R146	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K 1	
Q836,37	2SB1073-R	TRANSISTOR	2		R148	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 1	
Q839	2SD1819A-R	TRANSISTOR	1		R149	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K 1	
Q840	2SB1219A-R	TRANSISTOR	1		R150	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K 1	
0841,42	2SD1624-S	TRANSISTOR	2		R151	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 1	
Q843	2SB1219A-R	TRANSISTOR	1		R152	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
Q848	2SD1819A-R	TRANSISTOR	1	FOR VEP82223A	R153	ERJ3GEYG471	M. RESISTOR CH 1/16W 470 1	
Q903	2SD1819A-R	TRANSISTOR	1		R154	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	
Q905-08	2SD1819A-R	TRANSISTOR	4		R155	ERJ3GEYG682	M. RESISTOR CH 1/16W 6,8K 1	
Q914	2SD1819A-R	TRANSISTOR	1		R156, 57	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 2	A No. of the Control
Q918	2SD1819A-R	TRANSISTOR	1	1	R158	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
Q922	2SD1819A-R	TRANSISTOR -	1	-	R160-66	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 7	
Q924	2SD1819A-R	TRANSISTOR	1		R167	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K 1	
Q926	2SD1819A-R	TRANS ISTOR	. 1		R172	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	
Q930	2SD1819A-R	TRANSISTOR	1		R178	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	And the second s
					R179,80	ERJ6RBD223	M. RESISTOR CH 1/10W 22K 2	
QR1	UN5213	TRANSISTOR-RESISTOR	1	FOR VEP80B09A	R181	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	
	UN5213	TRANSISTOR-RESISTOR	2		R182	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K 1	
QR106	UN5213	TRANSISTOR-RESISTOR	1		R183	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
QR150	UN5213	TRANSISTOR-RESISTOR	1		R185	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	
QR200,01	UN5213	TRANSISTOR-RESISTOR	2	FOR VEP82223A	R190	ERJ3GEYJ273	MLRESISTOR CH 1/16W 27K 1	
QR305	UN5113	TRANSISTOR-RESISTOR	1	;	R191	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 1	
QR306	UN5213	TRANSISTOR-RESISTOR	1		R192-95	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 4	
QR504	UN5213	TRANSISTOR-RESISTOR	1		R196	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 1	
QR701,02	UN5114	TRANSISTOR-RESISTOR	2		R201	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K 1	
QR70305	UN5214	TRANSISTOR-RESISTOR	3	FOR VEP82223A	R202		in the second se	FOR VEP82212A/B
QR801	UN5213	TRANSISTOR-RESISTOR	1		R203, 04		M. RESISTOR CH 1/16W 1K 2	
QR804	UN5214	TRANSISTOR-RESISTOR	1		R205		M. RESISTOR CH 1/10W 33K 1	
	UN5214	TRANSISTOR-RESISTOR	2		R206	ERJ6RBD223	M. RESISTOR CH 1/10W 22K 1	
QR813	UN5214	TRANSISTOR-RESISTOR	ī	er venet i sande es amerikase a commence con com error es venementament esta contra	R208		M. RESISTOR CH 1/16W 4.7K 1	
QR814	UN5114	TRANSISTOR-RESISTOR	1		R209	†·····	M. RESISTOR CH 1/16W 47K 1	
QR818	UN5114	TRANSISTOR-RESISTOR	1		R210			FOR VEP82212A/B
QR824	UN5114	TRANSISTOR-RESISTOR	1		R210	ERJ8GEYJ1R5		FOR VEP82223A
QR828	UN5114	TRANSISTOR-RESISTOR	1	<u> </u>	R211	ERJ8GEYJ1R2	M. RESISTOR CH 1/8W 1.2K 1	
QR834	UN5114	TRANSISTOR-RESISTOR	- 1		R212	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K 1	
QR838	UN5114	TRANSISTOR-RESISTOR	1				M. RESISTOR CH 1/16W 47K 2	
QR844-46	UN5214	TRANSISTOR-RESISTOR	3				M. RESISTOR CH 1/16W 33K 1	
QR849-52	UN5214 UN5212	TRANSISTOR-RESISTOR	1	FOR VEP82223A	R216		M. RESISTOR CH 1/16W 22K 1	mades were a become arthur assume an account
QR903-07		TRANSISTOR-RESISTOR	4 6	, vi. TEI VELEJA	R210		M. RESISTOR CH 1/16W 2ZK [
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R290 ERJSGEY0103 M. RESISTOR CH 1/16W 12K 1 FOR VEP82223A R461 ERJSGEY1032 M. RESISTOR CH 1/16W 12K 1 FOR VEP82223A R468,69 ERJSGEY1032 M. RESISTOR CH 1/16W 12K 1 FOR VEP82223A R468,69 ERJSGEY1032 M. RESISTOR CH 1/16W 12K 1 FOR VEP82223A R470 R468,69 ERJSGEY1032 M. RESISTOR CH 1/16W 12K 1 FOR VEP82223A R470 R	
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R282 ERJ3GEY1012 M. RESISTOR CH 1/16W 1K. 1 FOR VEP82223A R470 ERJ3GEY102 M. RESISTOR CH 1/16W 390K. 1 FOR VEP82223A R477, 3 ERJ3GEYJ392 M. RESISTOR CH 1/16W 390K. 1 FOR VEP82223A R472, 73 ERJ3GEYJ393 M. RESISTOR CH 1/16W 390K. 1 FOR VEP82223A R472, 73 ERJ3GEYJ393 M. RESISTOR CH 1/16W 10K. 2 FOR VEP82223A R503-0-6 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 4 R272, 73 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 4 R272, 73 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 4 R272, 73 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 4 R272, 73 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 4 R289 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R509-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R509-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R509-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R509-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP82223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K. 1 FOR VEP8223A R510-0 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K	
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R292, 93 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 2 FOR VEP82223A R513 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R294 ERJ3GEYG102 M. RESISTOR CH 1/16W 4.7K 1 FOR VEP82223A R513 ERJ3GEYG102 M. RESISTOR CH 1/16W 2K 2 R296 ERJ3GEYJ103 M. RESISTOR CH 1/16W 1K 1 FOR VEP82223A R519, 20 ERJ3GEYJ104 M. RESISTOR CH 1/16W 12K 1 FOR VEP82223A R519, 20 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 2 R297 ERJ3GEYJ103 M. RESISTOR CH 1/16W 1K 1 FOR VEP82223A R519, 20 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 2 R298 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 FOR VEP82223A R526 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 FOR VEP82223A R526 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 FOR VEP82223A R526 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 FOR VEP82223A R526 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 FOR VEP82223A R526 ERJ3GEYJ104 M. RESISTOR CH 1/16W 10K 1 FOR VEP82223A R526 ERJ3GEYJ393 M. RESISTOR CH 1/16W 10K 1 FOR VEP82223A R526 ERJ3GEYJ393 M. RESISTOR CH 1/16W 10K 1 FOR VEP82223A R526 ERJ3GEYJ393 M. RESISTOR CH 1/16W 39K 1 R530 ERJ3GEYJ393 M. RESISTOR CH 1/16W 27K 1 R536 ERJ3GEYJ393 M. RESISTOR CH 1/16W 39K 1 R536 ERJ3GEYJ393 M. RESISTOR CH 1/16W 27K 1 R536 ERJ3GEYJ393 M. RESISTOR CH 1/16W 27K 1 R536 ERJ3GEYJ103 M. RESISTOR CH 1/16W 68K 1 R537-40 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 4 R531 R537-40 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R536 ERJ3GEYJ103 M. RESISTO	
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R308-10 R308	
R313	The same of the sa
R515 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R544 ERJ3GEYJ103 M. RESISTOR CH 1/16W 16K 1 R546 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R547 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R548 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R548 ERJ3GEYJ103 M. RESISTOR CH 1/16W 0 7 R518 ERJ3GEYJ105 M. RESISTOR CH 1/16W 220 2 R519 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R556,57 ERJ3GEYJ101 M. RESISTOR CH 1/16W 10K 2 R527,28 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R558 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R527,28 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R559 ERJ3GEYJ105 M. RESISTOR CH 1/16W 10K 1 R530 ERJ3GEYJ106 M. RESISTOR CH 1/16W 10K 1 R559 ERJ3GEYJ105 M. RESISTOR CH 1/16W 510 1 R530 ERJ3GEYJ100 M. RESISTOR CH 1/16W 510 1 R560,61 ERJ3GEYJ331 M. RESISTOR CH 1/16W 330 2 R559 ERJ3GEYJ331 M. RESISTOR CH 1/16W 330 2 R560,61 ERJ3GEYJ331 M. RESISTOR CH 1/16W 330 2 R559 ERJ3GEYJ331 M. RESISTOR CH 1/16W 330 2 R560,61 ERJ3GEYJ331 M. RESISTOR CH	
R316 ERJ3GEYJ474 M. RESISTOR CH 1/16W 470K 1 R544 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1	
R317 ERJGEYG154 M. RESISTOR CH 1/10W 150K 1 R545-51 ERJGEYGROO M. RESISTOR CH 1/16W 0 7	
R319 ERJ3GEYJ474 M. RESISTOR CH 1/16W 470K 1 R556, 57 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 2	AND AND A COMM NO. 100 AND ASSESSMENT OF THE PARTY OF THE
R320 ERJ3GEYJ153 M. RESISTOR CH 1/16W 15K 1 R558 ERJ3GEYJ105 M. RESISTOR CH 1/16W 1M 1 R327, 28 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 2 R559 ERJ3GEYJ511 M. RESISTOR CH 1/16W 510 1 R530 ERJ8GEYJ1R0 M. RESISTOR CH 1/8W 1 1 R560, 61 ERJ3GEYJ331 M. RESISTOR CH 1/16W 330 2	
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R332 ERJ8GEYJIRO M. RESISTOR CH 1/8W 1 1 R600 ERJ12YOROO M. RESISTOR CH 1/2W 0 1	- Anthony course on the Control of t

Ref.No.	Part No.	Part Name & DescriptionPe	s Remarks	Ref.No.	Part No.	Part Name & Description	Pcs Remarks
R701,02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	R879	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1
R703	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	R880	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	1
R704		M. RESISTOR CH 1/16W 1K	1	R881	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1
		M. RESISTOR CH 1/16W 100K	1	R882-84		M. RESISTOR CH 1/8W 390	3
R706	ERJ3GEYJ104	The same results are to the same and the sam		R885		M. RESISTOR CH 1/16W 10K	1
R707	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	· ··· ·			
R708	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	R886	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	
R709	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R887	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1
R710	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1	R890-95	ERJ12YJ3R3	M. RESISTOR CH 1/2W 3.3	6
R711	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	R897,98	ERJ12YJ3R3	M.RESISTOR CH 1/2W 3.3	2
R712, 13	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	R905	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1
		M. RESISTOR CH 1/16W 100K	1	R906	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1
R714	ERJ3GEYJ104	· · · · · · · · · · · · · · · · · · ·					
R715	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	14	R907	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	
R716,17	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	2	R908	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K]
R718	ERJ8GEYJ300	M. RESISTOR CH 1/8W 30	1	R910	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1
R721	ERJ6GEYG271	M. RESISTOR CH 1/10W 270	1	R913	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1
R722	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R914	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	11
R727-30	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	R915	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	11
		M. RESISTOR CH 1/16W 1K	4	R917, 18	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2
R731-34	ERJ3GEYG102		1				1
R735	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	R921	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	
R736	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R922	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1
R737,38	ERJ8GEYJ102	M. RESISTOR CH 1/8W 1K	2	R923	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1
R747	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	R924	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1
R748	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R925	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1
R749,50	ERJ8GEY0R00	M. RESISTOR CH 1/8W 0	2 FOR VEP82223A	R926	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1 1
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R927-30	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4
R801			3				1 EOD VED922224
R803,04	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	4	R932	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP82223A
R805	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	R933, 34	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2
R806-11	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	6	R936-38	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3 .
R812, 13	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	2 FOR VEP82223A	R940	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1
R814	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1 FOR VEP82223A	R941, 42	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2 FOR VEP82223A
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	R943	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1 FOR VEP82223A
R815-17							
R819,20	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	2	R944	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1 FOR VEP82223A
R821	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	R945-47	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	3 FOR VEP82223A
R822	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1				
R823-25	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	3	SW901	VSS0367-02B	SWITCH	1 FOR VEP82223A
R826, 27	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	2				
***************************************	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	TG114	EYF6CU	TEST POINT	1
R828			1	TG300	EYF6CU	······································	1
R829	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K		16300	EIFECO	TEST POINT	1
R830	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1				
R831, 32	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	TP100-02	EYF6CU	TEST POINT	3
R833	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	TP107	EYF6CU	TEST POINT	1
R834,35	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	TP113	EYF6CU	TEST POINT	1
R836	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	TP115,16	EYF6CU	TEST POINT	2
		M. RESISTOR CH 1/16W 6.8K	1	TP301,02	EYF6CU	TEST POINT	2
R837	ERJ3GEYG682	The state of the s	1				2
R838	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K		TP402	EYF6CU	TEST POINT	
R839	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	TP501-05	EYF6CU	TEST POINT	5
R840,41	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	TP902	EYF6CU	TEST POINT	1
R842	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1				
R843,44	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	VR101	EVM7JGA00B54	V. RESISTOR 50K	
R845	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	VR401	EVM7JGA00B54		1 1
		M. RESISTOR CH 1/16W 47K	1	VR402	EVM7JGA00B24	V. RESISTOR 20K	1
R846	ERJ3GEYJ473						
R847,48	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2	VR501,02	EVM7JGA00B24	V. RESISTOR 20K	4 500 1/5000045 : 75
R849	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	VR503	EVM7JSX30B24	V. RESISTOR 20K	1 FOR VEP82212A/B
R850	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	VR503	VRV0303B203A	V.RESISTOR 20K	1 FOR VEP82223A
R851,52	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	VR504	EVM7JSX30B24	V. RESISTOR 20K	1 FOR VEP82212A/B
R853	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	VR504	VRV0303B203A	V. RESISTOR 20K	1 FOR VEP82223A
R854,55	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2				
		M. RESISTOR CH 1/16W 10K		X500	VSX0791	CRYSTAL OSCILLATOR	1
R856	ERJ3GEYJ103		1	A300	1000/31	OTTOTAL OSCILLATOR	
R857	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K					
R858	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1			MISCELLANEOUS	
R859	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1				
R860,61	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2		VSC4607	SHIELD CASE	1
R862	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1			CONTROL OF THE CONTRO	
			2	I			
R863,64	ERJ8GEYJ391		1			* 170 A.V. (7 A.V. 100 MAR MARK AND AND AND AND AND AND AND AND AND AND	
R865	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1				
R866	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	L			
R867,68	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	2				1
R869	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	■ E2	VEP00W08B	HEAD PHONE P.C.BOARD	1 (RTL)
R870	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1				
R871,72	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2	· ·			1 1
			1	C9201, 02	ECKF1H102ZF	C. CAPACITOR 50V 1000P	2
R873	ERJ3GEYJ103			C3201,02	LONI INTUZZE	C. CAPACITOR 50V 1000P	
R874,75	ERJ8GEYJ391	M. RESISTOR CH 1/8W 390	2			<u> </u>	[]
R876	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	J9201	VJJ0522	JACK	1
R877	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1]				
R878	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1]	L1,L2	VLP0147	COIL	2
h				ľ			
				-			
	_L	<u>.l,</u>		L	L	L	LL

Ref. No.	Part No.	Part Name & Description	Pes	Remarks	Ref. No. P1003	Part No. VJP2824A003	Part Name & Description CONNECTOR (MALE) 3P),C	:s Remarks
P9201	VJP1608T	CONNECTOR (MALE)	1		P1004	VJP3518B008	CONNECTOR (MALE)		1
10201		The Comment of November 1		Transmitted to the Control of the Co	P1005	VJP3125B009	CONNECTOR (MALE)		1
					P1006,07	VJP3125B004	CONNECTOR (MALE)	-	2
					P1008, 09	VJS3551	CONNECTOR (FEMALE)		2
					01001	26 12006	TDANCICTOD	-	1
= F2	VEDOGAMA	DC INPUT P.C.BOARD		(RTL)FOR AJ-D215P/D200P	Q1001 Q1002	2SJ280S 2SB779-0	TRANSISTOR TRANSISTOR	-	1
■ E3	VEP80A44A VEP00X87C	DC INPUT P. C. BOARD	1	(RTL)FOR AJ-D215HE/D200HE	01003	2SD1819A-R	TRANSISTOR	-	1
≡ E3	VEPOUX87C	DC INFOI F.C. BOAND	·	(NTE)FOR AS-DE13RE/DE00RE	01004	2SD874-R	TRANSISTOR	-	
					01005	2SD1979	TRANSISTOR	-	1
D1	S3V40	DIODE	1		01006	2SB1220-R	TRANSISTOR	-	1
D1	00140	The second secon		the set of the set of	01007, 08	2SD1821-R	TRANSISTOR		2
		MISCELLANEOUS			01009,10	2SD1979	TRANSISTOR	1	2
								Ι.	
	VJP2717	CONNECTOR	1		0R1001-06	UN5113	TRANSISTOR-RESISTOR	ļ	6
	VLP0312	FERRITE CORE	1	FOR VEP00X87C	****				
	VEE9423	EXT DC CABLE	1		R1001	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	 	1
	VLP0312	FERRITE CORE	1		R1002	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	-	1
					R1003	ERJ6GEYJ1R0 ERJ3GEYJ681	M. RESISTOR CH 1/10W 1 M. RESISTOR CH 1/16W 680	ļ	1
				,	R1004	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		1.
		ACCURATION ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT OF A SECURIOR OF A SECURIOR ASSESSMENT ASSES	-		R1005	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	-	1
			 		R1007	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	·	1
■ E4	VEP84297B	REAR JACK P. C. BOARD	1	(RTL)FOR AJ-D215P/D200P	R1007	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	- -	1
■ E4	VEP84297C	REAR JACK P. C. BOARD	1	(RTL)FOR AJ-D215HE/D200HE	R1009	ERJ3GEYJ390	M. RESISTOR CH 1/16W 39	1	1
= -7			†		R1010	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	1
			l		R1011	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	1
C1001-06	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	6		R1012	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	T	1
C1007	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		R1014	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	1
C1008	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1		R1015	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	T	1
C1009	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1		R1016	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K		1
C1010	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1		R1017	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820		1
C1011	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		R1018	ERJ3GEYJ103	MLRESISTOR CH 1/16W 10K		1
C1012	EC0B2332JF	P. CAPACITOR 200V 3300P	1		R1019	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	L	1
C1014	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1		R1020	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	1
C1015	ECEVOJN100Q	E. CAPACITOR CH6. 3V 10U	1		R1021	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	ļ	1
C1016	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1		R1022, 23	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	2
C1017	VCC0030	C. CAPACITOR	1		R1024	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	1
C1018	ECUM1H273KBN	C. CAPACITOR CH 50V 0.027U	1		R1025, 26	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	ļ.,	2
C1019	ECUX1H822KBV	C. CAPACITOR CH 50V 8200P	1		R1027	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	ļ	1
C1020	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		R1028	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	-	1
C1021	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1		R1029	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	┼	1
C1022	ECEVOJN100Q	E, CAPACITOR CH6.3V 10U	1	A COLO CONTRACTOR DE LA COLONIA DE LA COLONIA DE CONTRACTOR DE CONTRACTO	R1030 R1031	ERJ3GEYJ124 ERJ3GEYJ470	M. RESISTOR CH 1/16W 120K M. RESISTOR CH 1/16W 47	-	1
C1023	ECUX1H390JCV	C. CAPACITOR CH 50V 39P C. CAPACITOR CH 25V 0.047U			R1034	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	+	1
C1024	ECUX1E473KBN	C. CAPACITOR CH 25V 0.0470	+ ;		R1035	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	╁	1
C1025 C1026	VCE0180	E. CAPACITOR		and the second s	R1036	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	-	1
C1028	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	***************************************	R1037	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	t	1
		C. CAPACITOR CH 25V 0.1U	2		R1038	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	†-	1
C1028, 23		C. CAPACITOR CH 50V 0.01U	2					T	
C1032	ECEV0GV221Q	E. CAPACITOR CH 4V 220U	1		SW1001	VSS0342	SWITCH	1	1
C1033	ECA1EFQ102	E. CAPACITOR 25V 1000U	1	FOR VEP84297C					
					T1001	VLT0729	TRANSFORMER		1
CB1001	VSQ0834	CIRCUIT PROTECTOR	1					Ĺ	
			_					<u> </u>	
D1001	S3V60	DIODE	1	-	TG1001,02	EYF6CU	TEST POINT	1	. 2
D1002	MA142K	DIODE	1	**************************************			V. DED LOTOS	1	
			ļ	THE RESIDENCE OF THE TAX AND THE TRANSPORTED PARTY AND ADDRESS OF THE PROPERTY AND A TAX AND ADDRESS OF THE PARTY.	VR1001	VRV0161B503	V. RESISTOR 50K	-	
FL1001	EIR70F012B	TRANSFORMER	1		VR1002	VRV0161B103	V.RESISTOR 10K	-	
101001 -	N BIACCON D	ıc	2	***************************************			MISCELLANEOUS	-	
101001,02	NJM4558M-D	IC	1-2	and the state of t			IN 1 SOLLLANGUUS	t	
11000 00	VI E12154100	COIL 1000UH	-		ļ	VMP4846	JACK ANGLE	-	1
	VLF1315A102 VLF1315A102	COIL 10000H	1	The section of the se		XYN3+K6	SCREW	-	1
L1005	VLF1315A102 VLF1315A102	COIL 10000H	2	***************************************		VEE0C58	GND CABLE	1	1 FOR VEP84297C
L1007,08	VLF1315A102 VLF1315A102	COIL 1000UH	1					-	
	VLF1313A102 VLF1151A132	COIL 1300UH	2	- refreshing to the section of the s					
L1011, 12	VLP0320	COIL	1		<u></u>			†	······································
L1013	VL00423J472	COIL 4700UH	1	The second of the second					
L1015-22	VLF1315A102	COIL 1000UH	8					f	
L1023	ELELN560KA	COIL 56UH	1		■ E5	VEP80A43A	AV OUT P.C.BOARD		1 (RTL)FOR AJ-D215P/D200P
******				1 10	■ E5	VEP80A75A	AV OUT P.C.BOARD	_	1 (RTL)FOR AJ-D215HE/D200H
P1001	VJS2907D025	CONNECTOR (FEMALE)	1						
P1002	VJP2824B002	CONNECTOR (MALE)							
	1				1		L	1	1

Ref.No.		Part Name & Description			Ref.No.	Part No.	Part Name & Description	nPc	es Remarks
C6, C7	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	FOR VEP80A75A	C1057	ECUX1E104KBN		1	1
12	VJS3154	CONNECTOR (FEMALE)	1		C1059 C1060	VCE0180 ECUX1H681JV	E. CAPACITOR	-	1
J3 J4	VJS3155	CONNECTOR (FEMALE)			C1060	VCE0180	C. CAPACITOR CH 50V 680P E. CAPACITOR	-	1
J5	VJJ0323	RCA PIN JACK		THE THE PERSON AND A SECOND COMMON	C1062	ECUX1E104ZFV		+	1
					C1063	VCEA1DAP680	E. CAPACITOR 20V 68U	-	1
LI	VLP0147	COIL	1	FOR VEP80A75A	C1066	VCEA1AAP221	E. CAPACITOR 10V 220U		-1
L4,L5	VLP0147	COIL	2	FOR VEP80A75A	C1067	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U		1
L6, L7	VLP0352	FERRITE CORE	2	FOR VEP80A75A	C1068	ECUX1H123KBV	C. CAPACITOR CH 50V 0.012U	I	1
					C1069	VCEA1CAP101	E. CAPACITOR 16V 100U		1
P9700	VJP1610T	CONNECTOR (MALE) CONNECTOR (MALE)	1		C1070	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	-	1
P9701	VJP1607T	CONNECTOR (MALE)		AND THE PARTY NAME OF THE PARTY WHITE AND THE PARTY WAS ABOUT THE PARTY OF THE PART	C1071 C1072	ECA1EFQ820 ECA1JFQ560	E. CAPACITOR 25V 82U E. CAPACITOR 63V 56U		1
R2, R3	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	FOR VEP80A75A	C1073	ECUM1H104KBM	C. CAPACITOR CH 50V 0.1U		1
			ļ		C1074	ECA1JFQ560	E. CAPACITOR 63V 56U		1
					C1077	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U	1	1
					C1078, 79	ECUM1E105ZFM	C. CAPACITOR CH 25V 1U		2
			ļ		C1080	ECEV1HNR470	E. CAPACITOR CH 50V 0.47U	1	1
■ E6	VEP00Y56A	SERVO FLEX P.C.BOARD	-	(RTL)	C1101	VCK0284	C. CAPACITOR	+	1
E CO	VEPUUTSBA	SERVO FLEX P.C.BOARD	- 1	(NIL)	C1102 C1103	VCK0284	C. CAPACITOR 12V 15P C. CAPACITOR		1
					C1103	ECUX1H331JCV	C. CAPACITOR CH 50V 330P		1
P1, P2	VJS3806E060	CONNECTOR (FEMALE)	2	CONTRACTOR OF CO	C1105	VCE0180	E. CAPACITOR		1
					C1106	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	+	1
					C1107	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U		1
			ļ		C1108	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	. 1	1
		THE RESERVE THE PROPERTY OF TH	ļ		C1109	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	_	1
■ E7	VEP81179A	POWER P.C.BOARD	-	(RTL)	C1110	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	-	1
<u> </u>	VEP811/9A	PUNER P.C. BUARD		(KIL)	C1111 C1112	ECUX1C273KBV ECUX1H472KBV	C. CAPACITOR CH 16V 0.027U C. CAPACITOR CH 50V 4700P		1 1
					C1113	ECUX1H821JCV	C. CAPACITOR CH 50V 4700P		1
C1001	VCE0180	E. CAPACITOR	1		C1114	ECST1AY225Z	T. CAPACITOR CH 10V 2.2U		1
C1002	ECEV1EV4R70	E. CAPACITOR CH 25V 4.7U	1		C1115	ECST1CY105Z	T. CAPACITOR CH 16V 1U	\dagger	1
C1003	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C1116	ECST1VY474Z	T. CAPACITOR CH 35V 0.47U		1
C1004	ECEV1HV0100	E. CAPACITOR CH 50V 1U	1		C1117	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	L	1
C1005	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1		C1118	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	1
C1006 C1007	ECUX1H471JCV	C. CAPACITOR CH 16V 0.47U C. CAPACITOR CH 50V 470P	'		C1119 C1120	ECUX1C473KBV ECUX1H822KBV		-	1 1
C1007	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	THE COURT WATER AND A SAME OF PROSPECT AND A SAME STRAIGHT OF THE SPECIFIC SECTION OF THE SAME RANGE OF THE SAME SAME SAME SAME SAME SAME SAME SAM	C1120	ECUX1H471KBV	C. CAPACITOR CH 50V 8200P C. CAPACITOR CH 50V 470P		1
C1009	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C1122	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U		1
C1010	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C1123	ECUX1H821JCV	C. CAPACITOR CH 50V 820P	1	1
C1011-13	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	3		C1124	ECUX1H220JCV	C. CAPACITOR CH 50V 22P		1
C1014		C. CAPACITOR CH 25V 0.1U	1		C1125, 26	ECUX1H821JCV	C. CAPACITOR CH 50V 820P		2
C1015		C. CAPACITOR CH 50V 470P	1		C1127, 28	ECUX1H220JCV	C. CAPACITOR CH 50V 22P		2
C1016 C1017, 18	VCEA1DAP101	E. CAPACITOR CH 25V 0.1U E. CAPACITOR 20V 100U	2		C1129 C1130	VCK0284	C. CAPACITOR CH 16V 1U C. CAPACITOR	-	1
C1021	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C1131	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	+-	1
C1022	VCE0180	E. CAPACITOR	1		C1132	ECUX1C273KBV	C. CAPACITOR CH 16V 0.027U	+	1
C1023	ECUX1H681JV	C. CAPACITOR CH 50V 680P	1		C1133	VCE0180	E. CAPACITOR	T	1
C1024	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C1134, 35	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U		2
C1025	VCE0180	E. CAPACITOR	1		C1136	VCK0284	C. CAPACITOR		1
C1026	ECUX1H681JV VCE0180	C. CAPACITOR CH 50V 680P	1		C1137		C. CAPACITOR CH 50V 330P	-	1
C1027 C1028		E. CAPACITOR C. CAPACITOR CH 25V 0.1U	1		C1138 C1139		C. CAPACITOR CH 16V 0.027U C. CAPACITOR CH 16V 1U		1
C1029	VCE0180	E. CAPACITOR CH 25V 0.10	1		C1140		C. CAPACITOR CH 16V 1U C. CAPACITOR CH 50V 1200P	+	11
C1030		C. CAPACITOR CH 25V 0.1U	1		C1141	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	-	1
C1031		C. CAPACITOR CH 25V 0.1U	1		C1142,43	ECA1EFQ221	E. CAPACITOR 25V 220U	1:	2
C1033	VCE0180	E. CAPACITOR	1		C1144-47	VCK0284	C. CAPACITOR	1	4
C1034		C. CAPACITOR CH 50V 470P	1		C1148		C. CAPACITOR CH 16V 1U		1
C1035	VCE0180	E. CAPACITOR			C1149	ECUX1H220JCV	C. CAPACITOR CH 50V 22P		1
C1036, 37		C. CAPACITOR CH 25V 0.1U E. CAPACITOR CH 25V 4.7U	2		C1150		C. CAPACITOR CH 16V 1U		
C1038	ECEVIEVAR/Q ECEVIHV010Q	E. CAPACITOR CH 25V 4.70	-		C1151 C1152		C. CAPACITOR CH 25V 0.1U E. CAPACITOR CH6.3V 33U	-	1
C1042	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1		C1153		C. CAPACITOR CH 25V 0.1U		1
C1043	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	A 17 get a secretar at assessment with set one a common property on pro-	C1206	VCK0284	C. CAPACITOR	1	
C1044	ļ	C. CAPACITOR CH 50V 470P	1		C1207		E. CAPACITOR 25V 220U	1	
C1045		C. CAPACITOR CH 16V 0.027U	- 1		C1208	VCK0284	C. CAPACITOR	1	
		C. CAPACITOR CH 50V 1000P	3		C1209	ECA1EF0221	E. CAPACITOR 25V 220U	1	
C1049	**********	C. CAPACITOR CH 25V 0.047U	-1	TO STATE I TO SECURE AND ADDRESS OF THE SECURE ADDRESS OF THE SECURE AND ADDRESS OF THE SECURE AND ADDRESS OF THE SECURE AND ADDRESS OF THE SECURE AND ADDRESS OF THE SECURE A	D1001		DIODE		
C1050		C. CAPACITOR CH 50V 470P	-		D1001		DIODE	1	
C1051 C1053	VCE0180	C. CAPACITOR CH 25V 0.1U E. CAPACITOR	-1		D1004-06 D1007		DIODE	3	5
C1053		C. CAPACITOR CH 50V 680P	귀		D1007	A	DIODE	- ;	
C1055	VCE0180	E. CAPACITOR	1				DIODE	1	
C1056		C. CAPACITOR CH 25V 0.1U	1		* * *		DIODE		The same of the sa
					,			·····	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & DescriptionPo	:8	Remarks
D1011	EC100S1012	DIODE	1		R1013	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
D1014	MA736	DIODE	.1	, and the secretary transfer to	R1014	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1	
D1015	MA738	DIODE			R1015	ERJ3GEYJ470 ERJ3GEYJ103	M. RESISTOR CH 1/16W 47	1	
D1017, 18	MA142WK	DIODE	2		R1016 R1018	ERJ6RBD153	M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/10W 15K	-	
D1101 D1102	MA142K SB05-05CP	DIODE	- 1		R1019	ERJ6RBD332		1	
D1102	MA142K	DIODE	1		R1021	ERJ6RBD562	M. RESISTOR CH 1/10W 5.6K	1	
D1106-12	MA8068-H	DIODE	7		R1022	ERJ6RBD182	M. RESISTOR CH 1/10W 1.8K	1	
					R1023	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	***************************************
IC1001,02	BA9706K	IC	2	The state of the s	R1024	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
IC1003	LM2577MX-ADJ	1C	1		R1025	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
IC1004	BA9707KV	IC	1	in water, one was ready one proper are now in the first label the label below.	R1026	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	PROFIT A SUM OF THE ST. ST.
					R1027	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
L1001	VL00407120M	COIL 12UH	1	CONTRACTOR ANGLESSON TO STATE BY THE TOTAL PROPERTY OF THE TOTAL CONTRACTOR TOTAL CONTRACTO	R1030	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	1	
L1002,03	VL00622	COIL	2		R1031	ERJ6RBD133	M. RESISTOR CH 1/10W 13K		
L1004	VL00297 VL00407680K	COIL 68UH			R1032	ERJ6RBD183 ERJ6RBD393	M. RESISTOR CH 1/10W 18K M. RESISTOR CH 1/10W 39K	1	
L1005	VL00407680K	COIL	1		R1034	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	THE RESERVE AND AND AND AND AND AND AND AND AND AND
L1009	VLQ0621	COIL	1		R1035, 36	ERJ6RBD182	M. RESISTOR CH 1/10W 1.8K	2	
L1010	VLQ0407680K	COIL 68UH	1		R1038	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	entreme A substitute of the su
L1012	VLQ0621	COIL	1		R1039	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
L1013	VLQ0407680K	COIL 68UH	1		R1040	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
L1014	VLQ0642	COIL	1		R1041	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
L1015	VLQ0417	COIL 10UH	1		R1042	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
L1016	VLQ0319K680	COIL	1		R1043,44	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	***************************************
L1017	VL00621	COIL	- -		R1045, 46	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
L1018	VLQ0407680K	COIL 68UH 3.9UH			R1047 R1048	ERJ3GEYJ103 ERJ3GEYG332	M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 3.3K	1	CONTROL TO SPACE AND AND AND AND AND AND AND AND AND AND
L1101 L1102	ELC5SB3R9M ELL7SR330M	COIL 3.90H	++		R1048	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2	
L1102	ELC5SB4R7M	COIL 4.7UH	-		R1051	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
L1104	ELL7SR470M	COIL 47UH	1		R1054	ERJ6RBD563	M. RESISTOR CH 1/10W 56K	1	
L1105	ELC5SB4R7M	COIL 4.7UH	1		R1055	ERJ6RBD822	M. RESISTOR CH 1/10W 8.2K	1	
L1106	ELL7SR220M	COIL	1		R1056	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
L1107	VLQ0319K100	COIL 10UH	1		R1057	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
L1108	VLQ0319K220	COIL 22UH	1		R1058	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
L1109	VLQ0319K100	COIL 10UH	1		R1060	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
L1110	VL00319K220	COIL 22UH	1		R1062	ERJ6RBD163	M. RESISTOR CH 1/10W 16K		
D1001	VJS2889A025	CONNECTOR (FEMALE)	1		R1063 R1064	ERJ6RBD822 ERJ3GEYG472	M. RESISTOR CH 1/10W 8:2K M. RESISTOR CH 1/16W 4.7K		
P1001 P1002	VJS2698A026	CONNECTOR (FEMALE)	1		R1065	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
P1003	VJP1231T	CONNECTOR (MALE) 4P	1		R1066	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
					R1069	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
01001,02	2SJ245S	TRANSISTOR	2		R1070	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	
01003,04	2SD1820A-R	TRANSISTOR	2		R1071	ERJ3RBD152	M. RESISTOR CH 1/16W 1.5K	1	
Q1005	2SB1219A	TRANSISTOR	1		R1072	ERJ14YJ1R0	M. RESISTOR CH 1/4W 1.0	1	
Q1006	2SJ245S	TRANSISTOR	-! -		R1073	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	4	
Q1007	2SD1820A-R	TRANSISTOR	1		R1074 R1075	ERJ6RBD683 ERJ6RBD182	M. RESISTOR CH 1/10W 68K M. RESISTOR CH 1/10W 1.8K		
Q1008	2SB1219A 2SJ245S	TRANSISTOR TRANSISTOR			R1076	ERJ6RBD101	M. RESISTOR CH 1/10W 1.0K	1	
Q1009 Q1010	2SD1820A-R	TRANSISTOR	1		R1077	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1	mention . I required any protect day, in the recommend distance become the
Q1010	2SB1219A	TRANSISTOR	1		R1078	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
01012	2SJ245S	TRANSISTOR	1		R1080	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
Q1013	2SD1820A-R	TRANSISTOR	1		R1081	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
Q1014	2SB1219A	TRANSISTOR	1		R1082	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
Q1015	2SJ279S	TRANSISTOR	1		R1083	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
Q1016	2SB1219A	TRANSISTOR	1		R1085	ERJ36EYG332	M. RESISTOR CH 1/16W 3.3K	1	
01017	2SD1820A-R	TRANSISTOR	- -		R1086	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 150K	1	And the last of the property of the contract o
01019	2SD1820A-R	TRANSISTOR			R1087 R1088	ERJ3GEYJ154 ERJ3GEYJ103	M. RESISTOR CH 1/16W 150K M. RESISTOR CH 1/16W 10K	1	
Q1020 Q1022	2SB1219A 2SD1820A-R	TRANSISTOR TRANSISTOR	1		R1088	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	Mark description of the second of the second
Q1101-03		TRANSISTOR	3		R1092	ERJ6RBD153	M. RESISTOR CH 1/10W 15K	1	
	2SB798	TRANSISTOR	1		R1093	ERJ6RBD393	M. RESISTOR CH 1/10W 39K	1	
01104		TRANSISTOR	2	AND THE RESIDENCE OF THE PERSON OF THE PERSO		ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	2	MATE THE SECTION OF SIZE ASSESSMENT SECTION OF SIZE A TWO IN S.
Q1104 Q1105,06					R1101	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	1	
				ACCORDING A COLUMN TO COMPANY AND ADMINISTRATION OF THE PARTY OF THE P	R1102	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1			LED 12000161	IN DECICEOD ON 1/10W 150	. 1	
01105,06		M. RESISTOR CH 1/10W 18K M. RESISTOR CH 1/10W 39K	1		R1103	ERJ3RBD151	M. RESISTOR CH 1/16W 150	1	
Q1105,06 R1001	ERJ6RBD183 ERJ6RBD393 ERJ3GEYG102	M.RESISTOR CH 1/10W 39K M.RESISTOR CH 1/16W 1K	1 1 1		R1104	ERJ3RBD242	M. RESISTOR CH 1/16W 2.4K	1	
Q1105,06 R1001 R1002 R1003 R1004	ERJ6RBD183 ERJ6RBD393 ERJ3GEYG102 ERJ3GEY0R00	M.RESISTOR CH 1/10W 39K M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 0	1 1 1		R1104 R1105	ERJ3RBD242 ERJ3GEYJ101	M. RESISTOR CH 1/16W 2.4K M. RESISTOR CH 1/16W 100	1 1	
Q1105,06 R1001 R1002 R1003 R1004 R1005,06	ERJ6RBD183 ERJ6RBD393 ERJ3GEYG102 ERJ3GEY0R00 ERJ6RBD182	M. RESISTOR CH 1/10W 39K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/10W 1.8K	1 1 1 1 2		R1104 R1105 R1106	ERJ3RBD242 ERJ3GEYJ101 ERJ3GEYJ221	M. RESISTOR CH 1/16W 2.4K M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/16W 220	1 1 1	
Q1105,06 R1001 R1002 R1003 R1004 R1005,06 R1007	ERJGRBD183 ERJGRBD393 ERJ3GEYG102 ERJ3GEYOR00 ERJGRBD182 ERJGRBD473	M. RESISTOR CH 1/10W 39K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/10W 1. 8K M. RESISTOR CH 1/10W 47K	1 1 1 1 2		R1104 R1105 R1106 R1107,08	ERJ3RBD242 ERJ3GEYJ101 ERJ3GEYJ221 ERJ3GEYJ151	M. RESISTOR CH 1/16W 2.4K M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/16W 220 M. RESISTOR CH 1/16W 150	1 1 1 2 2	
01105,06 R1001 R1002 R1003 R1004 R1005,06 R1007 R1008	ERJ6RBD183 ERJ6RBD393 ERJ3GEYG102 ERJ3GEY0R00 ERJ6RBD182 ERJ6RBD473 ERJ3GEYG102	M. RESISTOR CH 1/10W 39K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/10W 1. 8K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/16W 1K	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R1104 R1105 R1106 R1107,08 R1109	ERJ3RBD242 ERJ3GEYJ101 ERJ3GEYJ221 ERJ3GEYJ151 ERJ3GEYJ470	M. RESISTOR CH 1/16W 2.4K M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/16W 220 M. RESISTOR CH 1/16W 150 M. RESISTOR CH 1/16W 47	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R1001 R1002 R1003 R1004 R1005,06 R1007 R1008 R1009	ERJ6RBD183 ERJ6RBD393 ERJ3GEYG102 ERJ3GEYOR00 ERJ6RBD182 ERJ6RBD473 ERJ3GEYG102 ERJ3GEYJ222	M. RESISTOR CH 1/10W 39K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/10W 1. 8K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 2. 2K	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R1104 R1105 R1106 R1107,08 R1109	ERJ3RBD242 ERJ3GEYJ101 ERJ3GEYJ221 ERJ3GEYJ151 ERJ3GEYJ470 ERJ6RBD513	M. RESISTOR CH 1/16W 2.4K M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/16W 220 M. RESISTOR CH 1/16W 150 M. RESISTOR CH 1/16W 47 M. RESISTOR CH 1/10W 51K	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R1001 R1002 R1003 R1004 R1005,06 R1007 R1008 R1009 R1010	ERJ6RBD183 ERJ6RBD393 ERJ36EYG102 ERJ36EYG102 ERJ6RBD182 ERJ6RBD473 ERJ36EYG102 ERJ36EYG102 ERJ36EYG102	M. RESISTOR CH 1/10W 39K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/10W 1.8K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 2.2K M. RESISTOR CH 1/16W 1K	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R1104 R1105 R1106 R1107,08 R1109 R1110 R1111	ERJ3RBD242 ERJ3GEYJ101 ERJ3GEYJ221 ERJ3GEYJ151 ERJ3GEYJ470 ERJ6RBD513 ERJ6RBD273	M. RESISTOR CH 1/16W 2.4K M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/16W 220 M. RESISTOR CH 1/16W 150 M. RESISTOR CH 1/16W 47 M. RESISTOR CH 1/10W 51K M. RESISTOR CH 1/10W 27K	1 1 2 1 1 1 1 2	
R1001 R1002 R1003 R1004 R1005,06 R1007 R1008 R1009	ERJ6RBD183 ERJ6RBD393 ERJ3GEYG102 ERJ3GEYOR00 ERJ6RBD182 ERJ6RBD473 ERJ3GEYG102 ERJ3GEYJ222	M. RESISTOR CH 1/10W 39K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/10W 1. 8K M. RESISTOR CH 1/10W 47K M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 2. 2K	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R1104 R1105 R1106 R1107,08 R1109 R1110 R1111	ERJ3RBD242 ERJ3GEYJ101 ERJ3GEYJ221 ERJ3GEYJ151 ERJ3GEYJ470 ERJ6RBD513 ERJ6RBD273 ERJ6RBD182	M. RESISTOR CH 1/16W 2.4K M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/16W 220 M. RESISTOR CH 1/16W 150 M. RESISTOR CH 1/16W 47 M. RESISTOR CH 1/10W 51K M. RESISTOR CH 1/10W 27K	1 1 1 2 2 1 1 1 2	

Ref. No.	Part No.	Part Name & Description	Pc	s Remarks	Ref. No.		Part Name & Descr		Pc	s Remarks
	ERJ3GEYJ103 ERJ3GEYG102	M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 1K	1 2		C41	ECST1AX106Z	T. CAPACITOR CH 10V	100		
. 3	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1 3		C42, 43 C44	ECUX1E104ZFV VCK0151	C. CAPACITOR CH 25V	0.10	1-3	2
	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1		C45, 46	ECUX1E104ZFV	C. CAPACITOR C. CAPACITOR CH 25V	0.111	١.	
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		C47	ECST1AX106Z	T. CAPACITOR CH 10V	0.1U 10U	1	
R1122	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1		C48	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	١.,	
R1123	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		C49	ECUX1H180JCV	C. CAPACITOR CH 50V	18P		
	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	1		C50	ECUX1H682KBV	C. CAPACITOR CH 50V	6800P	1	
	ERJ6RBD361	M. RESISTOR CH 1/10W 360	1		C51-53	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. IU	1	3
	ERJ6RBD272	M. RESISTOR CH 1/10W 2.7K	1		C54	ECEV0GV4700	E. CAPACITOR CH 4V	47U		To the same to the
	ERJ3GEYJ101 ERJ6RBD472	M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/10W 4.7K	1		C55, 56	VCK0152	C. CAPACITOR			FOR VEP83356D/A
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 4.7K M. RESISTOR CH 1/10W 0	;	Management of the contraction of the second	C57 C58	ECUX1H103KBV	C. CAPACITOR CH 50V			FOR VEP83356D/A
	ERJ6RBD242	M. RESISTOR CH 1/10W 2.4K	+-;		C59	ECEV0JV470Q ECUX1H103KBV	E. CAPACITOR CH6.3V	47P	4	FOR VEP83356D/A
	ERJ6RBD152	M. RESISTOR CH 1/10W 1.5K	1 1	AND COLOR OF THE PROPERTY OF PROPERTY OF THE P	C60-62	VCK0151	C. CAPACITOR CH 50V C. CAPACITOR	0.010	-	FOR VEP83356D/A
	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1		C63-65	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010		FOR VEP83356D/A
R1133	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1		C66	VCK0151	C. CAPACITOR	0.010	1	71 ON 7EI 033300/A
	ERJ8GEYJ101	M. RESISTOR CH 1/8W 100	1	The second secon	C75, 76	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	2	
	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		C77	ECEV0JV470Q	E. CAPACITOR CH6.3V	47U	1	***************************************
	ERJ6RBD433	M. RESISTOR CH 1/10W 43K	1		C80-82	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	3	FOR VEP83356D/A
	ERJ6RBD753	M. RESISTOR CH 1/10W 75K	1		C86	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	
	ERJ6GEY0R00 ERJ3GEYJ680	M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/16W 68	3		C87	ECEVOGV470Q	E. CAPACITOR CH 4V	47U		
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	***************************************	C88 C90, 91	ECUX1C224KBN		0.220	·	FOR VEP83356D/A
	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		C90, 91	ECEV0JV4700	C. CAPACITOR CH 25V E. CAPACITOR CH6. 3V	0.1U	2	·
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		C93-95	ECUX1E104ZFV	C. CAPACITOR CH 25V	47U 0.1U	1	
	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		C96	ECEV0GV470Q	E. CAPACITOR CH 4V	47U	1	1
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		C103	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	
	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		C120	ECEVOJV3300	E. CAPACITOR CH6.3V	33U	1	
	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		C121	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		C122	ECEVOJV3300	E. CAPACITOR CH6.3V	33U	1	
	ERJ3GEY0R00 ERJ3GEYJ101	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 100	2		C123	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		C124 C125	ECUX1H120JCV ECUX1H470JCV	C. CAPACITOR CH 50V	12P		FOR VEP83356D/A
	L. IOGOL I OTTO	111111111111111111111111111111111111111			C129, 30	ECUX1E104ZFV	C. CAPACITOR CH 50V	47P		FOR VEP83356D/A
T1001	ELL7SRD006	COIL	1		C131	ECUX1H103KBV		0.1U 0.01U	********	FOR VEP83356D/A FOR VEP83356D/A
					C141	ECUX1H103KBV		0.010	1	I ON VERSOODD/A
TP1001-09		TEST POINT	9		C142			0.10	1	FOR VEP83356D/A
TP1101-06	EYF6CU	TEST POINT	6		C143		C. CAPACITOR CH 50V	15P		FOR VEP83356D/A
					C144	ECUX1H151JCV	C. CAPACITOR CH 50V	150P		FOR VEP83356D/A
	EVM7JGA00B23	V.RESISTOR 2K	5		C145	ECUX1H150JCV	C. CAPACITOR CH 50V	15P	1	FOR VEP83356D/A
VR1006	EVM7JGA00B52	V. RESISTOR 500			C146		C. CAPACITOR		1	
W1-W4 E	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4		C147 C148	ECUX1E104ZFV ECEV0GV470Q		0.10	1	
	LINGUETUTO	THE TRANSPORT OF THE PROPERTY		a processing improves transmitted processes money account and are presented and the	C153		E. CAPACITOR CH 4V C. CAPACITOR CH 50V	47U 5P	1	FOR VERNORS OF A
					C154			0. 1U	*********	FOR VEP83356D/A FOR VEP83356D/A
					C155		E. CAPACITOR CH6. 3V	10P		FOR VEP83356D/A
				The second contract of the second contract of	C160		C. CAPACITOR CH 50V	15P		FOR VEP83356E/B
		COMMISSION OF THE PROPERTY OF THE PARTY OF T			C160		C. CAPACITOR CH 50V	18P	*********	FOR VEP83356D/A
		VTR MAIN P. C. BOARD	1	(RTL)FOR AJ-D215P	C161			180P	1	
	VEP83356E VEP83356A	VTR MAIN P. C. BOARD	1	(RTL)FOR AJ-D215HE	C162,63			0. 1U	2	***************************************
	VEP83356A VEP83356B	VTR MAIN P.C.BOARD VTR MAIN P.C.BOARD		(RTL)FOR AJ-D200P (RTL)FOR AJ-D200HE	C164		E. CAPACITOR CH6. 3V	33U	1	
	- 03330D	TILL MAIN F. C. BUAND		(NIL/FUN AJ-UZUUHE	C165		C. CAPACITOR CH 50V	10P	_1	
		Confedence and companyation reaccord about an electric and a section in the section of the section and an electric and a section of the section and a section		- A designation of a production and a contract of the contract	C166 C168-70		C. CAPACITOR CH 16V C. CAPACITOR CH 25V	0.111		
C1 E	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	man complete immirroration			C. CAPACITOR CH 50V	0. 1U 5P	3	
	VCK0151	C. CAPACITOR	1		C172		C. CAPACITOR CH 16V 0		-	the state of the s
		C. CAPACITOR CH 25V 0.1U	2	. And prompts and at a first debated with a second control of the	C173		C. CAPACITOR CH 50V	15P	1	
		E. CAPACITOR CH 4V 47U	1	* * * * * * * * * * * * * * * * * * * *	C174		C. CAPACITOR CH 50V	12P	1	
		C. CAPACITOR CH 25V 0.1U	1		C175	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.1U	1	a decimal of the control of the cont
		C. CAPACITOR	1					10P	1	FOR VEP83356D/A
		C. CAPACITOR		CONTRACTOR OF THE PROPERTY OF	A THE CHARGE THE PERSON ASSESSED.			0.10		FOR VEP83356D/A
		C. CAPACITOR C. CAPACITOR	1	,		***************************************		0.10		FOR VEP83356D/A
		C. CAPACITOR	1		C187 C189			330	La creek	FOR VEP83356D/A
		C. CAPACITOR CH 50V 18P	1					2211		FOR VEP83356D/A
C21 E		C. CAPACITOR CH 50V 5P	2	THE RESIDENCE OF THE PROPERTY OF THE PARTY O				33U 0.1U	-	FOR VEP83356D/A
		TO ST. TOWNSON AND ADMINISTRATES THE ST. ST. ST. ST. ST. ST. ST. ST. ST. ST.	- 1					3.30	-	THE RESIDENCE COMMERCE TO SERVICE STREET, SEC. LANSING, SE
C22,23 E	NAME AND ADDRESS OF TAXABLE PARTY.	C. CAPACITOR). 10	4 F	FOR VEP83356D/A
C22,23 E C24 V C25 E	CK0152 CUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1				contract the experience of the same of the same of the same	-	-1	and the same of th
C22,23 E C24 V C25 E C26 E	CUX1H103KBV	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 25V 0.1U	1	· · · · · · · · · · · · · · · · · · ·			CAPACITON CH SUV U.	010	1 F	FOR VEP83356D/A
C22, 23 E C24 V C25 E C26 E C32, 33 V	CK0152 CUX1H103KBV CUX1E104ZFV CK0151	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 25V 0.1U C.CAPACITOR	1 2		C501	ECUX1E104ZFV C	CAPACITOR CH 25V 0	010). 10	1 F	FOR VEP83356D/A
C22,23 E C24 V C25 E C26 E C32,33 V C34 E	CK0152 CUX1H103KBV CUX1E104ZFV CK0151 CUX1E104ZFV	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 25V 0.1U C. CAPACITOR C. CAPACITOR CH 25V 0.1U	1 2 1		C501 C504	ECUX1E104ZFV C	CAPACITOR CH 25V 0	15P	1 F	FOR VEP83356D/A
C22, 23 E C24 V C25 E C26 E C32, 33 V C34 E C35 V	CK0152 CUX1H103KBV CUX1E104ZFV CK0151 CUX1E104ZFV CK0151	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 25V 0.1U C. CAPACITOR C. CAPACITOR CH 25V 0.1U C. CAPACITOR	1 2 1 1 1		C501 C504 C505	ECUX1E104ZFV C ECUX1H150JCV C ECUX1H180JCV C	CAPACITOR CH 25V 0 CAPACITOR CH 50V CAPACITOR CH 50V	15P 18P	1 F	FOR VEP83356D/A
C22, 23 E C24 V C25 E C26 E C32, 33 V C34 E C35 V C38 E	CK0152 CUX1H103KBV CUX1E104ZFV CK0151 CUX1E104ZFV CK0151 CUX1H102JV	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 25V 0.1U C. CAPACITOR C. CAPACITOR CH 25V 0.1U C. CAPACITOR C. CAPACITOR CH 50V 1000P	1 2 1 1 1 2		C501 C504 C505 C506	ECUX1E104ZFV C ECUX1H150JCV C ECUX1H180JCV C ECUX1E104ZFV C	CAPACITOR CH 25V 0 CAPACITOR CH 50V CAPACITOR CH 50V CAPACITOR CH 25V 0	15P 18P 1U	1 F	FOR VEP83356D/A
C22, 23 E C24 V C25 E C26 E C32, 33 V C34 E C35 V C38 E	CK0152 CUX1H103KBV CUX1E104ZFV CK0151 CUX1E104ZFV CK0151 CUX1H102JV	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 25V 0.1U C. CAPACITOR C. CAPACITOR CH 25V 0.1U C. CAPACITOR	1 2 1 1 2		C501 C504 C505 C506	ECUX1E104ZFV C ECUX1H150JCV C ECUX1H180JCV C ECUX1E104ZFV C	CAPACITOR CH 25V 0 CAPACITOR CH 50V CAPACITOR CH 50V CAPACITOR CH 25V 0	15P 18P	1 F	FOR VEP83356D/A

Ref.No.	Part No.	Part Name & Description	Pes	Remarks	Ref. No.	Part No.	Part Name & Descrip	Lior	D	Remarks
C3001,02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C3523-26		C. CAPACITOR CH 50V 150		4	
C3003	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1				atanana and a samula and a samu	10	3	
1	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C3530	1			,	
			1					. 10	+	:
C3006	ECEV1CV4700	E. CAPACITOR CH 16V 47U	ļ		C3531		A C C C CO C CO CONTRACT OF A SECOND CO. C. C.	70P		
C3007	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3532-34			. 10	3	
C3008	ECEVOJV1010	E. CAPACITOR CH6.3V 100U	1		C3535	ECUX1H152KBV	C. CAPACITOR CH 50V 150	00P	1	
C3009, 10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C3536-51	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	. 10	16	
C3011	ECEV0JV330Q	E. CAPACITOR CH6.3V 33U	1		C3552	ECUX1C105KBM	C. CAPACITOR CH 16V	10	1	
C3012	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	500 (C.) 1000 (C	C4001,02	ECEV1CV470Q	E. CAPACITOR CH 16V	47U	2	
C3013	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	1		C4003		the second of the comment of the	. 10	1	***
C3014	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	Adams and the second se				70P	2	
C3018	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C4006, 07	ECHU1H103JB	P. CAPACITOR 50V 0.0	***********	2	
C3019	ECEVOGV470Q	E. CAPACITOR CH 4V 47U	1	en man demand on the teat of the second of	C4008				- 2	
			ļ			ECEVOJV3300		33U	1 !	
C3020, 21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	management and the second seco		ECEV0JV4700	The state of the s	47U	4	
C3022	ECEV0JV3300	E. CAPACITOR CH6.3V 33U	1		C4015			. 10	1	
C3023,24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C4016-18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	. 10	3	
C3025	ECEV0JV3300	E. CAPACITOR CH6. 3V 33U	1		C4019	ECEVOGV4700	E. CAPACITOR CH 4V	47U	1	
C3026-30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5		C4020	ECUX1E104ZFV	C. CAPACITOR CH 25V 0	. 10	1	The second section of the second section of the second section of the second section of the second section sec
C3100	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C4021	ECEV1CV1000	E. CAPACITOR CH 16V	100	1	
C3102	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	The second secon	C4022			. 10	1	
C3104	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C4023	ECEV0JV3300		33U	1	
C3105.06	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	2		C4024, 25			. 10	2	
C3107	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C4024, 23	ECEVOJV3300		330	1	
********	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	+-;		C4028				+:	
C3109		· · · · · · · · · · · · · · · · · · ·	+					. 10	1-!	METALES AND ADDRESS
C3111	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1-		C4028	ECUM1C105ZFN	C. CAPACITOR CH 16V	10	1 1	mu una mana arananana aranananananananananananan
C3112,13	ECUX1H040CCV	C. CAPACITOR CH 50V 4P	2		C4029, 30	ECEV1CV1000		100	2	
C3114, 15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	•	C4031		C. CAPACITOR CH 16V	10	1	
C3200	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1		C4032	ECEVOJV3300	E. CAPACITOR CH6.3V	33U	1	
C3208	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	_ 1		C4033	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	.10	1	
C3210	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1		C4034	ECEVOJV3300	E. CAPACITOR CH6.3V	33U	Tī	The second secon
C3211	ECUX1E104ZFV	C. CAPACITOR CH 25V 0, 1U	1		C4035	ECUX1E104ZFV		. 10	1 1	
C3212	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		C4036	ECUX1C105KBM		10	1	
C3213	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1		C4037	ECEV1CV1000	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	100	+ ;	
***************************************	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C4038				+;	
C3214, 15			2		*************************	ECEVO IVAZOO		10	+-!	
C3217, 18	ECUX1E104ZFV				C4039	ECEVOJV4700		47U	1.	
C3219	ECEVOJV3300	E. CAPACITOR CH6.3V 33U	1		C4040	ECST1VY684Z	T. CAPACITOR CH 35V 0.6		1-1	
C3220,21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C4041	ECUX1C105KBM	C. CAPACITOR CH 16V	10	1	
C3223,24	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C4042	ECEV1HN010Q	E. CAPACITOR CH 50V	10	1	
C3225	ECUX1H121JCV	C. CAPACITOR CH 50V 120P	1		C4043	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	10	1.	
C3231	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1		C4044	ECEVOJV3300	E. CAPACITOR CH6.3V	33U	1	
C3232	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C4045	ECEV1CV100Q	E. CAPACITOR CH 16V	OU	1	
C3233	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1		C4046	ECUX1C105KBM		10	1	
C3234	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1		C4047	ECEV1CV1000		OU	1	
C3235, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C4048	ECEVOJV1010		000	1	
C3238	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	militaria and anti-anti-anti-anti-anti-anti-anti-anti-	C4049			10	† ;	
C3240, 41	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	,	·	C4050	ECEV1CV1000		00	1	
		C. CAPACITOR CH 25V 0.1U	- 4		C4050				1	
C3243-46	ECUX1E104ZFV						C. CAPACITOR CH 50V 180	-		Manager was a second second second second
C3257-60	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	**************************************	C4052-57	ECUX1E104KBN		10	6	
	ECEV1EV4R70	E. CAPACITOR CH 25V 4.7U	1 2		C4058		C. CAPACITOR CH 50V 180	-	1	THE STATE OF PERSONNERS WITHOUT THE REP. LETS. S. I. A. AND SMITH, LETS, A. T.
C3263		C. CAPACITOR CH 25V 0.1U	1		C4059			17U	11	
C3264		C. CAPACITOR CH 50V 22P	1	***************************************	C4062		E. CAPACITOR		1	
C3265		C. CAPACITOR CH 25V 0.1U	1		C4063	AND DESCRIPTION OF THE PARTY OF	E. CAPACITOR CH 50V 1	00	1	THE PARTY OF THE P
C3266	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C4064	ECEA0JU331	E.CAPACITOR 6.3V 33	OU	1	FOR VEP83356E/B
C3267,68	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	2		C4101,02	ECUX1H471JCV	C. CAPACITOR CH 50V 47	OP	2	
C3269	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C4103,04	ECHU1H104JB	P. CAPACITOR 50V 0.	10	2	
C3270		E. CAPACITOR CH 50V 0.22U	1					3U	1	
C3271,72		C. CAPACITOR CH 50V 220P	2			***************************************		7U	1	
C3300-07		C. CAPACITOR CH 25V 0.1U	8	TOURS, THE TRANSPORTED CONTROL CONTROL CONTROL CONTROL STATEMENT, A TENSIONAL CONTROL OF AN A	C4108		C. CAPACITOR CH 25V 0.	-	1	MARKET THROUGH REGION COME AS IN IN THE PROPERTY AND A ST. C.
C3300=07	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C4110		C. CAPACITOR CH 50V 220		1	
	ECUX1E1042FV	C. CAPACITOR CH 50V 47P	1	tangan mangan namahangan ana ana ana ana ana ana ana ana an				-	-	and a contract of more one to a company and contract to the
C3311			- 1		***************************************			30	- 4	
C3312	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	- !			***************************************	······································	0P	2	
C3313	ECUX1H150JCV	C. CAPACITOR CH 50V 15P]	, yours, your sounds a residence of the contraction			C. CAPACITOR CH 25V 0.	-	2	1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M
C3314-17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4				C. CAPACITOR CH 50V 100	************	11	
C3319	ECUX1H680JCV	C. CAPACITOR CH 50V 68P	1				C. CAPACITOR CH 50V 22	0P	1	
C3320	· · · · · · · · · · · · · · · · · · ·	C. CAPACITOR CH 25V 0.1U	1					οU	1	
C3321	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C4120	ECUX1H470JCV	C. CAPACITOR CH 50V 4	7P	1	
C3322	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C4121	ECEV1CV1000	E. CAPACITOR CH 16V 1	OU	1	
C3323		C. CAPACITOR CH 50V 56P	1	THE RESIDENCE OF THE PARTY OF T	TO A MARKAGE TOTAL AND THE	W 444 10 -170 14 1-404 -4 14-1 1		10	1	THE METERS OF THE STATE OF THE
C3324		C. CAPACITOR CH 25V 0.1U	1				C. CAPACITOR CH 25V 0.		1	
C3500	the said management in the said of the	C. CAPACITOR CH 50V 1000P	1	or an analysis of the state of			The second of the second of the second	7U		
C3501-08		C. CAPACITOR CH 25V 0.1U	, R				P. CAPACITOR 50V 0.		2	
			3		*··· ·				4	
C3509, 10		17 A 18 A 18 A 18 A 18 A 18 A 18 A 18 A	4		1 4		A CALL OF THE CASE	0U	!	,
C3511-14		C. CAPACITOR CH 25V 0.1U	4		-			2U		
C3515		C. CAPACITOR CH 50V 68P	-1		1007 1000 01	of a constituent streets to take at	C. CAPACITOR CH 25V 0.	. 1	1	. 114
C3516-22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	. /		C4132	ECUX1H151JCV	C. CAPACITOR CH 50V 15	JP	_1	
		. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								

Ref.No.	Part No.	Part Name & Description	cs Remarks	Ref.No.	Part No.	Part Name & Description	l'cs	Remarks
C4133	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	106	XC62AP2302P	IC	1	
C4135	ECEVOJN1000	E. CAPACITOR CH6.3V 10U	1	1C7, C8	TC7SH08FU	1C	2	
C4136	ECEVOJV2200	E. CAPACITOR CH6.3V 22U	1	109	TVHC125FT	IC	1	
C4137	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	IC10	TC7S66FU	IC	1	
C4201,02	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	2	IC11	M65401FP	ic	1	
C4203, 04	ECHU1H104JB	P. CAPACITOR 50V 0.1U	2	IC12	TC7W04FU	IC	1	
	ECEVOJV3300	E. CAPACITOR CH6.3V 33U	1	IC13	M52660FP	IIC	1	-
	ECST1AC476Z	T. CAPACITOR CH 10V 47U	1	IC15	MN657021F	lic	1	FOR VEP83356D/A
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	IC16	MB81V4260S7	lic	1	TOTAL GOODDIN
. 4	ECUX1H222KBV	C. CAPACITOR CH 50V 2200P	1	1019	XC62AP3002P	lic	+ ;	
	ECEVOJV330Q	E. CAPACITOR CH6. 3V 33U	2	IC20	XC62AP5002P	lic	+ ;	
	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	2		M62370GP	IIC	1	
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	IC22 IC23	XC62AP5002M	lic -	:	
			1				+ :	
* ****** * * * * * * * * * * * * * * *	ECUX1H102JCV			1C24	XC62AP3002M	IC	1	
	ECUX1H221JCV	C. CAPACITOR CH 50V 220P	1	1025,26	TC7SH08FU	IC	2	FOR VEP83356D/A
	ECEV1CV1000	E. CAPACITOR CH 16V 10U		1C30	XC62DN5002P	IIC	1 1	-
	ECUX1H470JCV	C. CAPACITOR CH 50V 47P		IC31	TC7SH08FU	IC	-	FOR VEP83356D/A
	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	1C32	AD826AR	lic	1	FOR VEP83356D/A
. parte de la la la la la la la la la la la la la	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	1C33	T160G11-1233	IC	1	
	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1.	1C36	TVHC08FT	lic	1	
	ECEVOJV4700	E. CAPACITOR CH6.3V 47U	1	IC37	TC7SH08FU	1C	1	
C4227,28	ECHU1H104JB	P. CAPACITOR 50V 0.1U	2	1C40	AD817AR	IC	1	
C4229	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	IC41	AD790JR	IC	1	
C4230	ECEV1CV2200	E. CAPACITOR CH 16V 22U	1	1C42	TC7SH08FU	ıc	1	
ALE 10:00 HORSE BELLEVIN	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	IC43	NJM2535M	IC .	1	
	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	IC45	TVHC161FT	IIC :	1	
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1.	1C46	TC7WU04FU	IIC	1	
	ECEVOJN1000	E. CAPACITOR CH6. 3V 10U	1	1C48	AD817AR	IC	'i	FOR VEP83356D/A
	ECEVOJV2200	E. CAPACITOR CH6. 3V 22U	1	1C51	NJM2904M	110	+ ;	1 01 TEI 0000/A
	ECEVICVIO00	E. CAPACITOR CH 16V 10U	1	IC501	M37709M4L165	110	+:	
	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	5	1C301	TVHC125FT	IC IC	+ ;	
	•			***************************************			1-!	
	ECUX1E104ZFV		2	1C3002	TC7S04FU	IC ·		
	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	IC3003	XC62AP5002P	IC .	1	
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	1C3005	XC62AP3002P	IC	1	
	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	1C3006	XC62AP5002M	IC	1	
	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	1C3007	XC62DN5002P	1C	1	
C6013	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	1C3008	TVHC125FT	IC	1	
C6014-18	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	5	IC3009	TC7S00FU	IC	1	
C6019	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	IC3010	TC7W02FU	IC	1	
C6020	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	IC3011	TC7S04FU	IE	1	
C6022	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	IC3100	TC7W04FU	IC	1	
C6023	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	IC3101	TC7W00FU	IC	1	
C6025, 26	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	IC3200, 01	TC4S69F	ic	2	***************************************
C6030-41	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	12	IC3203	NJM062M-D	lic	1	
10 mm 10 mm m	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	6	1C3204	XC62DN5002P	lic	1	
	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	103205,06		IC	2	
	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	1C3208	UPC1663G	IIC ·	1	
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	1C3209	TC7W32FU	lic	1	
00000	C00X1L104211	0.04 70 710 11 01 20 0.10		IC3210, 11		IC	1	
D2000 02	114.1.40WIV	DIODE	_				2	
			2	1C3300	UPC5102GS030	IIC	1!	
	MA143	DIODE	2	103302	UPC1663G	IC	1	
	MA3220	DIODE	1	1C3303	TC7W08FU	1C	1	
	MA143	DIODE	1	1C3304	TC7W04FU	IC	1	
	MA143	DIODE	2	1C3500	AN3730FA	IC	1	
	MA715	DIODE	1	IC3501	AN3740FAP	IC	1	
	MA142K	DIODE	1	1C3502	MC14053BF	IC:	1	
D4201,02	MA143	DIODE	2	1C4001	UPC5022GA121	IC .	1	
D4203	MA715	DIODE	1	1C4002	HD151015	IC	1	
D4204	MA142K	DIODE	1	1C4003	MC74HCU04AF	IC	1	
D6001-08	MA715	DIODE	8	1C4004	XC62AP3002P	IC	1	
				1C4006	AK4503VF	IC	1	
FGD1	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	IC4007	TC7W125FU	IC	1	
		, , , and was recent to a confirmation with a second			BA6138F	IC	1	
FL1	VLF1118	FILTER	1	1C4009	MC14053BF	10	1	
	VLF1326	FILTER	1 FOR VEP83356D/A		NJM062M-D	IC		and the second contract of the second
	VLF1293	FILTER	1 FOR VEP83356D/A	104010	CXA1102M	IC .	1	
			1	}			-!	
	VLF0941C223	FILTER		IC4012	NJM062M-D	IC	- 1	
FL4001	VLF1069	FILTER			BA7785FS	IC	1	
				IC4101	NJM062M-D	IC	1	The state of the s
	MN67372A2	IC	1	IC4102	NJM4580ED	IC	1	
	MN4706F	LIC	1 FOR VEP83356D/A	IC4201	NJM062M-D	IC	1	
	MN4707F	ic .	1 FOR VEP83356E/B		NJM4580ED	IC	1	
		lia l	11	IC6001	M31010M6104H	IC	1	
1C2	MN673711	IC		100001				
IC2 IC3	MN673711 L7A1433	1C	1		MAX3223CAP	IC	1	
IC2 IC3 IC4			1	IC6002		IC	1	
IC2 IC3 IC4	L7A1433	ĮC .	1	IC6002		ASTRONOMY AND AND AND AND	1	

Ref.No.	Part No.	Part Name & DescriptionP	cs	Remarks	Ref.No.	Part No.	Part Name & Description	Pc	s Remarks
106009	TVHC138FT	IC	1		Q6	2SB1218A-R	TRANSISTOR		1
and a second	TVHC04FT	IC	1		0.8	2SB1218A-R	TRANSISTOR		1
	MBLV80B12PFT	IC	1		011	2SD1819A-R	TRANSISTOR	·	FOR VEP83356D/A
	KM68V1CLTE7L	IC	1		012	2SB1218A-R	TRANSISTOR	1	FOR VEP83356D/A
	T163G26-1019	IC	1		013	2SD1819A-R	TRANSISTOR		FOR VEP83356D/A
	MC74HC4052F	IC	2		014	XN4401	TRANSISTOR		1 FOR VEP83356D/A
IC6016	UPD6456T611Y	IC	-		Q15 Q18	XN4501 XN4401	TRANSISTOR TRANSISTOR	-1	1 FOR VEP83356D/A 1 FOR VEP83356D/A
IC6018	KM68V1CLTE7L	10		and against the same of the sa		XN4501			1 FOR VEP83356D/A
	VIII DO1 45	0011		AND AND AND AND AND AND AND AND AND AND	019 024	XP4312	TRANSISTOR TRANSISTOR	1 .	1 FOR VEP83356D/A
L1	VLP0145 VLP0155	COIL COIL	3		03001	2SB1114	TRANSISTOR	+	1 ON VER 833300/A
L3-L5 L6,L7	VL00319K101	COIL 100UH	2		03002	2SD1280-S	TRANSISTOR	╫	1
L8, L7	VLQ0163J220	COIL 22UH	1		03003	2SB1218A-R	TRANSISTOR	-	11
L11	VLQ01033220 VLP0155	COIL	1		Q3100	2SB710A-R	TRANSISTOR	+	1
L12, 13	VLQ0319K101	COIL 100UH	2	FOR VEP83356D/A	03101	2SD1819A-R	TRANSISTOR	1	1
L17	VLQ0319K101	COIL 100UH	1	FOR VEP83356D/A	03102,03	2SC3735B35	TRANSISTOR	1	2
L23	VLQ0464K6R8	COIL 6.8UH	1		03104	2SB710A-R	TRANSISTOR	1	1
L31	VLQ0464K6R8	COIL 6.8UH	1	FOR VEP83356D/A	Q3105	2SD1819A-R	TRANSISTOR		1
L34	VLQ0319K101	COIL 100UH	1		03106,07	2SC3735B35	TRANSISTOR		2
L40	VLQ0163K390	COIL 39UH	1	FOR VEP83356D/A	03201	2SA1532-C	TRANSISTOR		1
L41	VLQ0163K220	COIL 22UH	1	FOR VEP83356D/A	03202-05	2SD1979	TRANSISTOR		4
L42	VLP0145	COIL	1		03207	2SC3935	TRANSISTOR	1.	1
L44	VLQ0464K6R8	COIL 6.8UH	1		03208,09	2SC2954	TRANSISTOR	1	2
L501	VL00464K6R8	COIL 6.8UH	1		03210	2SC3935	TRANSISTOR	1.	1
L1001-10	VLF1315A102	FILTER	10		03212, 13	2SA1532-C	TRANSISTOR	1	2
L1011,12	VLP0147	COIL	2		03214	2SC2954	TRANSISTOR	1	1
L1013	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		FOR VEP83356D/A	03215	2SA1532-C	TRANSISTOR	4.	1
L1013	VLF1149A182	COIL 1800UH	*********	FOR VEP83356E/B	03216-19	2SD1979	TRANSISTOR	1-	4
L1014	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		FOR VEP83356D/A	03221, 22	2SC2954	TRANSISTOR TRANSISTOR		2
L1014	VLF1149A182	COIL 1800UH		FOR VEP83356E/B	03225, 26	2SA1532-C	TRANSISTOR		1
L1015	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		FOR VEP83356D/A	03227	2SC2954 2SD1280-S	TRANSISTOR TRANSISTOR		1
L1015	VLF1149A182	COIL 1800UH		FOR VEP83356E/B FOR VEP83356D/A	03228 03229	2SB1218A-R	TRANSISTOR	╁	1
L1016	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 COIL 1800UH		FOR VEP83356E/B	03230	2SB1114	TRANSISTOR	+	1
L1016 L1017	VLF1149A182 ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83356D/A	03235	2SB1114	TRANSISTOR	+	1
L1017	VLF1149A182	COIL 1800UH	1	FOR VEP83356E/B	03300	XN5531	TRANSISTOR-RESISTOR	+	1
L1017	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83356D/A	03304, 05	2SC3935	TRANSISTOR	+	2
L1018	VLF1149A182	COIL 1800UH	1	FOR VEP83356E/B	Q3306	2SC3930-B	TRANSISTOR	+	1
L1019	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		FOR VEP83356D/A	03307	XN5531	TRANSISTOR-RESISTOR	T	1
L1019	VLF1149A182	COIL 1800UH	1	FOR VEP83356E/B	Q3500	2SC3930-B	TRANSISTOR	1	1
L1020	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83356D/A	Q3501	2SB1219A-R	TRANSISTOR		1
L1020	VLP0147	COIL	1	FOR VEP83356E/B	Q3502	2SB1218A-R	TRANSISTOR		1
L1200-08	VLF1315A102	COIL 1000UH	9		Q4001	2SD1819A-R	TRANSISTOR		1
L3001	VLQ0319K220	COIL 22UH	1		04002	2SD602A-R	TRANSISTOR		1
L3002, 03	VLQ0319K101	COIL 100UH	2		Q4003	2SB710A-R	TRANSISTOR		1
L3100-03	VL00163J2R2	COIL 2.2UH	4		04004	2SB1220-R	TRANSISTOR	4	1
L3200-03	VL00163J330	COIL 33UH	4		04005	2SD602A-R	TRANSISTOR	- .	1
L3300, 01	VL00163J1R0	COIL 1UH	2		Q4006	2SB1219A-R	TRANSISTOR		1
L3303	VL00163JR22	COIL 0.22UH	1		04101,02	2SD1979	TRANSISTOR	1	2
	VLQ0163J100	COIL 10UH	2		04103-05	2SD1819A-R	TRANSISTOR		3
	VL00163J100	COIL 10UH	2	iinaanaanaan maanaanaanaanaanaanaanaanaanaanaanaanaan	04201,02 04203-05	2SD1979 2SD1819A-R	TRANSISTOR TRANSISTOR	-	2
L4201,02	VL00163J100	COIL 10UH	1		U4ZU3-U5	ZOUIDIDA-K	IN WIND TO LOW	+	
L6001	VLQ0319K100 VLQ0464K6R8	COIL 10UH 6.8UH	1	***************************************	QR3001	UN5213	TRANSISTOR-RESISTOR	+	1
L6002 L6003	VLQ0464K6H8 VLQ0163J270	COIL 8.80H	1		QR3100, 01		TRANSISTOR-RESISTOR	1-	2
L0003	12401030270	2/01			QR3200, 01		TRANSISTOR-RESISTOR	+	2
P1	VJS3791D036	CONNECTOR (FEMALE)	1	FOR VEP83356D/A	QR4001	UN5213	TRANSISTOR-RESISTOR	1	1
P2	VJP3810E140	CONNECTOR (MALE)	1	ANTE PRODUCTION AND THE PROPERTY AND THE	QR4002	UN5113	TRANSISTOR-RESISTOR	1	1
P3	VJP3809E060	CONNECTOR (MALE)	1	***************************************	QR4003	UN5213	TRANSISTOR-RESISTOR	T	1
P4	VJS3406B025	CONNECTOR (FEMALE)	1	produces and the control of the cont	QR4004	UN5113	TRANSISTOR-RESISTOR]	1
P5	VJP3125D006	CONNECTOR (MALE)	1	FOR VEP83356D/A	QR4005	UN5213	TRANSISTOR-RESISTOR	I	1
P6	VJP3125B009	CONNECTOR (MALE)	1		QR6001-04	UN5114	TRANSISTOR-RESISTOR	T	4
P7	VJP3125B008	CONNECTOR (MALE)	ī		QR6005	UN5214	TRANSISTOR-RESISTOR	1	1
P8	VJS3406D014	CONNECTOR (FEMALE)	1		QR6006,07	UN5213	TRANSISTOR-RESISTOR		2
P9,10	VJP3125B010	CONNECTOR (MALE)	2		QR6008	UN5214	TRANSISTOR-RESISTOR	1.	1
P11	VJS3406B025	CONNECTOR (FEMALE)	1		QR6009-11	UN221L	TRANSITOR-RESISTOR	-	3
P12	VJP3125B003	CONNECTOR (MALE) 3P	1		QR6012,13	The second secon	TRANSISTOR-RESISTOR	1	2
P13	VJP3950A002	CONNECTOR (MALE)	1		QR6014-16	UN5213	TRANSISTOR-RESISTOR	1	3
P14	VJP3950A006	CONNECTOR (MALE)	1	FOR VEP83356D/E/B			Li anni di		
P3001	VJS3899D013	CONNECTOR (FEMALE)	1	urjum ummar , amaningan amaningan amaningan amaningan amaningan amaningan amaningan amaningan amaningan amanin	R22	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1-	1
P3002	VJP3358C012	CONNECTOR (MALE)	1		R31	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	-	1
				COD VEDOUSEDA	R34	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K		
	2SD1819A-R	TRANSISTOR		FOR VEP83356D/A	R41	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 100	+-	1
01	00010101		- 1	FOR VEP83356D/A	R42	ERJ3GEYJ101	m. 112313100 CH 1/10# 100	1	4
. 02	2SB1218A-R	TRANSISTOR		EOR VED83356D/A	B/17	EB ISCENTION	M RESISTOR CH 1/16W 111	1	1
2	2SB1218A-R 2SD1819A-R	TRANSISTOR		FOR VEP83356D/A	R47	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M		1

R52,53	Part No.	Part Name & DescriptionPc		Ref. No.	Part No.	Part Name & Description	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	R237	ERJ3GEYJ472	M. RESISTOR CH 1/16W 4.7K	1 FOR VEP83356D/A
4	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R238	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1
R56	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R239	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP83356E/B
R57	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	R239	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1 FOR VEP83356D/A
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R240	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1
	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	R241	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	
R60	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	R242	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K	1
R61	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	R243	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R244	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1
R66,67	ERJ3GEY0R00	Military Control of the Control of t	2	R245	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1
R68	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	R246	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1
R70	VRT0145	THERMISTOR]	R249	ERJ3RBD512	M. RESISTOR CH 1/16W 5.1K	1 11
R71	ERJ3GEYG302	M. RESISTOR CH 1/16W 3K	1	R250	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	
R72	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	R251	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1
R73	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1 500 45000500 (4	R253	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1
R78	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1 FOR VEP83356D/A	R256	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1 FOR VEP83356D/A
R79	VRT0145	THERMISTOR	1 FOD VED0225CD /A	R257	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1 FOR VEP83356D/A
R81	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 5.6K	1 FOR VEP83356D/A 1 FOR VEP83356D/A	R258	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1 FOR VEP83356D/A
R84	ERJ3GEYJ562 ERJ3GEYJ222	M. RESISTOR CH 1/16W 5.6K M. RESISTOR CH 1/16W 2.2K		R259 R261	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1 FOR VEP83356D/A
R85			1 FOR VEP83356D/A		ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1 FOR VEP83356D/A
R86,87	ERJ3GEYJ391 ERJ3GEYJ152		2 FOR VEP83356D/A 1 FOR VEP83356D/A	R262 R263	ERJ3GEYJ682 ERJ3GEYJ470	M. RESISTOR CH 1/16W 6.8K	1 FOR VEP83356D/A
R88	ERJ3GEYJ101		1 FOR VEP83356D/A	R264	ERJ3GEYJ100	M. RESISTOR CH 1/16W 47 M. RESISTOR CH 1/16W 10	1 FOR VEP83356D/A
R89	ERJ3GEYJ100		1 FOR VEP83356D/A	R265	ERJ3RED680		1 FOR VEP83356D/A 1 FOR VEP83356D/A
R90 R91	ERJ3GEYJ100	M. RESISTOR CH 1/16W 1K	1 FOR VEP83356D/A	R266	ERJ3GEYJ220	M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 22	1 FOR VEP83356D/A
R92	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1 FOR VEP83356D/A	R267	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1 FOR VEP83356D/A
R93	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1 FOR VEP83356D/A	R268	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1 FOR VEP83356D/A
R94	ERJ3GEYJ222		1 FOR VEP83356D/A	R269	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1 FOR VEP83356D/A
R95	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1 FOR VEP83356D/A	R271	ERJ3GEYJ220	M. RESISTOR CH 1/16W 22	1 FOR VEP83356D/A
R96	ERJ3GEYJ102		1 FOR VEP83356D/A	R272	ERJ3GEYJ682	M. RESISTOR CH 1/16W 6.8K	1 FOR VEP83356D/A
R97	ERJ3GEYJ821		1 FOR VEP83356D/A	R273	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1 FOR VEP83356D/A
R98	ERJ6RBD102		1 FOR VEP83356D/A	R274	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	1 FOR VEP83356D/A
R99	ERJ3GEYJ681		1 FOR VEP83356D/A	R276	ERJ3RED680	M. RESISTOR CH 1/16W 68	1 FOR VEP83356D/A
R111	ERJ3GEYJ473	M. RESISTOR CH 1/10W 47K	1 FOR VEP83356D/A	R277, 78	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2 FOR VEP83356D/A
R112	ERJ3GEYJ563	M. RESISTOR CH 1/10W 56K	1 FOR VEP83356D/A	R279	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1 FOR VEP83356D/A
R116-18	ERJ3GEY0R00		3 FOR VEP83356D/A	R280	ERJ3GEYJ471	M. RESISTOR CH 1/16W 470	1 FOR VEP83356D/A
R126	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R289	ERJ3RED680	M. RESISTOR CH 1/16W 68	1 FOR VEP83356D/A
R136, 37	ERJ3GEYJ102		2 FOR VEP83356D/A	R290	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1 FOR VEP83356D/A
R140	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R291	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1
R144	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R292	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1 1
R150	ERJ3GEYJ821	M. RESISTOR CH 1/10W 820	1 FOR VEP83356D/A	R293	ERJ3RBD123	M. RESISTOR CH 1/16W 12K	1
R151	ERJ3GEYJ102	M. RESISTOR CH 1/10W 1K	1 FOR VEP83356D/A	R294	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1
R153	ERJ3RBD102	M. RESISTOR CH 1/10W 1K	1 FOR VEP83356D/A	R295	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1 FOR VEP83356D/A
R154	ERJ3GEYJ152	M. RESISTOR CH 1/10W 1.5K	1 FOR VEP83356D/A	R296	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1 FOR VEP83356D/A
R155	ERJ3GEYJ101	M. RESISTOR CH 1/10W 100	1 FOR VEP83356D/A	R301	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1
R156	ERJ3GEYJ332	M. RESISTOR CH 1/10W 3.3K	1 FOR VEP83356D/A	R506	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	
R157	ERJ3GEYJ272	M.RESISTOR CH 1/10W 2.7K	1 FOR VEP83356D/A	R507-09	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3
R158	ERJ3GEYJ152	M.RESISTOR CH 1/10W 1.5K	1 FOR VEP83356D/A	R512	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1
R162	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP83356D/A	R513,14	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2
R163	ERJ3GEYJ272	M. RESISTOR CH 1/10W 2.7K	1 FOR VEP83356D/A	R515, 16	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2
R164	ERJ3GEYJ222	M. RESISTOR CH 1/10W 2.2K	1 FOR VEP83356D/A	R519,20	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2
R165	ERJ3GEYJ102		1 FOR VEP83356D/A	R521	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1
R166,67	ERJ3RBD102		2 FOR VEP83356D/A	R522, 23	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2
R169	ERJ3GEYJ561		1 FOR VEP83356D/A	R524-26	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3
R170,71	ERJ3GEYJ222		2 FOR VEP83356D/A	R528	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1
R179	ERJ3GEYJ103		FOR VEP83356D/A	R530-32	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3 FOR VEP83356E/B
R180	ERJ3GEYJ153		1 FOR VEP83356D/A	R533-40	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	8
R181	ERJ3GEY0R00		FOR VEP83356D/A	R541, 42	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2
R183	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0		R544	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1
R189, 90	ERJ3GEY0R00		2 FOR VEP83356E	R546, 47	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2
R195	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K		R1001-08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	8
R196, 97	ERJ3GEYG471	M. RESISTOR CH 1/16W 470 2	2	R1009-12	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4 FOR VEP83356D/A
R198	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 1		R3001	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1
R205,06	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 2		R3003	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	
R220	ERJ3GEYJ101		FOR VEP83356D/A	R3004		M.RESISTOR CH 1/16W 1.5K	1
R221	ERJ3GEYJ271		FOR VEP83356D/A	R3005		M.RESISTOR CH 1/16W 47K	1
R222	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 1		R3006		M.RESISTOR CH 1/16W 3.3K	1
R227	ERJ3GEYJ270	M. RESISTOR CH 1/16W 27 1		R3007		M.RESISTOR CH 1/16W 47K	1
	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47 1	FOR VEP83356E/B	R3008		M. RESISTOR CH 1/10W 0	1
R230	ERJ3RBD561	M. RESISTOR CH 1/16W 560 1	, , , , , , , , , , , , , , , , , , , ,	R3009		M.RESISTOR CH 1/16W 10K	-1
R230 R232	ERJ3RBD102		FOR VEP83356E/B	R3011		M. RESISTOR CH 1/16W 0	1
R230 R232 R233			FOR VEP83356D/A	R3100,01	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	21
R230 R232 R233 R233	ERJ3RBD122	a program of the control of the cont	1 OIL 12 02220D/A			and the same are the same and t	
R230 R232 R233 R233 R234	ERJ3RBD122 ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 1	7 OT VII 03330D/A	R3102	·	M.RESISTOR CH 1/16W 22K	1
R230 R232 R233 R233 R234 R235	ERJ3RBD122 ERJ3GEY0R00 ERJ3GEYJ222	M. RESISTOR CH 1/16W 0 1 M. RESISTOR CH 1/16W 2.2K 1	1 01 1 1 03330D/A	R3102 R3103	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1
R230 R232 R233 R233 R234	ERJ3RBD122 ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 1		R3102 R3103	ERJ3GEYJ563		1 1 1

Ref.No.	Part No.	Part Name & Description	Pes	Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
R3105	ERJ6GEYJ5R6	M. RESISTOR CH 1/10W 5.6	1		R3343	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3106	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R3416	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R3107	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K M. RESISTOR CH 1/16W 0	1		R3418 R3420	ERJ3GEY0R00 ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	1	
R3108,09	ERJ3GEY0R00 ERJ6GEYG270	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/10W 27	1	AND THE WAY IN THE PROPERTY OF	and the second second	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R3111	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R3426,27	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	2	
R3112	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R3428,29	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	
R3114	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R3431,32	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2	***************************************
R3115	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1		R3438	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
R3116	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K M.RESISTOR CH 1/10W 5.6	1		R3439 R3441-43	ERJ3GEYJ473 ERJ3GEYJ103	M. RESISTOR CH 1/16W 47K M. RESISTOR CH 1/16W 10K	3	
R3117 R3118	ERJ6GEYJ5R6 ERJ3GEYJ392	M.RESISTOR CH 1/10W 5.6 M.RESISTOR CH 1/16W 3.9K	+		R3444	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	
R3119	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1	A SECURITION OF THE PARTY OF TH	R3445,46	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3120,21	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2		R3447	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3122	ERJ6GEYG270	M. RESISTOR CH 1/10W 27	1		R3448	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3123	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R3449,50	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	2	
R3124	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K M. RESISTOR CH 1/16W 10K	3		R3500 R3501	ERJ3GEYJ122 ERJ3GEYJ222	M. RESISTOR CH 1/16W 1.2K M. RESISTOR CH 1/16W 2.2K	1	THE PROPERTY AND PERSONS ASSESSED AS A PROPERTY OF THE PROPERT
R3200-02 R3203-06	ERJ3GEYJ103 ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	4		R3503	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	
R3207,08	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	2		R3504	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	Market Annie Amerika (Market Market M
R3212, 13	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2		R3505	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3218	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1		R3506	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3219	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R3508, 09	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R3220	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R3510	ERJ3GEYJ562 ERJ3GEYJ273	M.RESISTOR CH 1/16W 5.6K M.RESISTOR CH 1/16W 27K	1	
R3221 R3222, 23	ERJ3GEYJ222 ERJ3GEYJ470	M. RESISTOR CH 1/16W 2.2K M. RESISTOR CH 1/16W 47	2		R3511 R3512	ERJ3GEYJ2/3 ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K		
R3224	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R3513	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3225, 26	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		R3514	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	GALLANDERS CONTROL AND A STATE OF THE AND AND A STATE OF THE AND A STA
R3228	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3515	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	
R3229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1		R3516	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1	
R3230	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1.1		R3517	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3231	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K M. RESISTOR CH 1/16W 10K	1 3		R3518 R3519	ERJ3GEYG332 ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.3K M. RESISTOR CH 1/16W 3.9K	-	
R3232-34 R3237	ERJ3GEYJ103 ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R3520	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R3238, 39		M.RESISTOR CH 1/16W 1.8K	1 2		R3521-23	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	3	
R3240	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R3524	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3241	ERJ14YJ270H	M. RESISTOR CH 1/4W 27	1		R3526	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	_1	MATERIAL AND ADDRESS AND ADDRESS OF THE MATERIAL PARTY AND ADDRESS
R3242-44		M. RESISTOR CH 1/16W 10K	3	***************************************	R3527, 28	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3245-48		M. RESISTOR CH 1/16W 2.2K M. RESISTOR CH 1/16W 1.2K	4		R3529 R3530	ERJ3GEYG102 ERJ3GEYJ470	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 47	-	ACCOUNT OF THE PARTY OF THE PAR
R3249, 50 R3251, 52		M. RESISTOR CH 1/16W 1.2K M. RESISTOR CH 1/16W 47K	2		R3531, 32	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	
R3253	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R3533	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
R3262, 63		M. RESISTOR CH 1/16W 47	2		R3534	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3265	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3535	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	and the same with the same of
R3266	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R3536	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R3268	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K M. RESISTOR CH 1/16W 10K	1 3		R3537 R3538	ERJ3GEYJ153 ERJ3GEYJ272	M. RESISTOR CH 1/16W 15K M. RESISTOR CH 1/16W 2.7K		
R3269-71 R3274	ERJ3GEYJ103 ERJ3GEYG472	M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 4.7K	1		R3540	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K		AND THE RESIDENCE AND THE CONTRACT OF STREET O
R3275, 76		M.RESISTOR CH 1/16W 1.8K	2		R3541	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	1	
R3277	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R3542	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3278	ERJ14YJ270H	M.RESISTOR CH 1/4W 27	1		R4001	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R3280	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R4002, 03	ERJ14YJ682	M. RESISTOR CH 1/4W 6.8K	2	AND THE RESIDENCE OF THE PARTY
R3287, 88		M. RESISTOR CH 1/16W 1.8K M. RESISTOR CH 1/16W 0	2	***************************************	R4004 R4006, 07	ERJ6GEYG392 ERJ3GEYJ331	M. RESISTOR CH 1/10W 3.9K M. RESISTOR CH 1/16W 330	-	
R3289, 90 R3291	ERJ3GEY0R00 ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R4008, 07	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3292	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R4010	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3301	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R4011, 12	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	. 2	2 - 1966 - WE TOOL OF THE TOO SEE THE TOO
R3309, 10	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2			ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	2	
R3318	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	order at these respectives at the second of	R4017, 18	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3319	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	+ !		R4019, 20 R4021, 22	ERJ3GEYJ334 ERJ3GEYJ103	M. RESISTOR CH 1/16W 330K M. RESISTOR CH 1/16W 10K	2	
R3320 R3321,22	ERJ3GEYJ272 ERJ3GEYJ470	M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 47	1 2		R4023-26	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	4	
R3321, 22	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	ar e galante, a lagger and galante produced and an arrival state of the Collection o	R4028	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	i	The same is compact white the same is a second of the
R3324, 25		M. RESISTOR CH 1/16W 47	2	\$40 PARKS 1 MARKS 1970 CAN PARKS 197	R4029	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3326,27		M. RESISTOR CH 1/16W 330	2	No. 00.000 to 00.000 No. 00.000 N	R4030	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
R3328, 29		M. RESISTOR CH 1/16W 470	2		R4031	ERJ6RBD433	M. RESISTOR CH 1/10W 43K	1	
R3330	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R4032	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	-1	
R3331	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	3		R4033, 34 R4035	ERJ3GEYG472 ERJ14YJ682	M. RESISTOR CH 1/16W 4.7K M. RESISTOR CH 1/4W 6.8K	1	
R3332-34		M. RESISTOR CH 1/16W 47 M. RESISTOR CH 1/16W 2.7K	2	at the last access, began common, a few tractions from the first traction of the few terms are continued to the	R4035	ERJ1413662 ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3335, 36	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R4037	ERJ14YJ682	M. RESISTOR CH 1/4W 6.8K	1	AN AN
R3338	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R4038	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	
R3339	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4039	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3340	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R4040,41	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	
R3341	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R4042-44	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	mentalement to trace and an analysis of the control
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	Remarks
RADIAGE RADI	
R4101 R410	
R4101_02 ER.1947/1822 M. RESISTOR CH 1/16W 22K 2 R6006-10 ER.1967/1910 M. RESISTOR CH 1/16W 0 5 R4105 ER.1967/1913 M. RESISTOR CH 1/16W 10 1 R6012 ER.1967/1914 M. RESISTOR CH 1/16W 47K 1 R6012 ER.1967/1914 M. RESISTOR CH 1/16W 47K 1 R6013 ER.1967/1914 M. RESISTOR CH 1/16W 47K 1 R6013 ER.1967/1914 M. RESISTOR CH 1/16W 47K 1 R6013 ER.1967/1914 M. RESISTOR CH 1/16W 10K 1 R6014 ER.1967/1914 M. RESISTOR CH 1/16W 10K 1 R6015 ER.1967/1013 M. RESISTOR CH 1/16W 10K 1 R6016 ER.1967/1013 M. RESISTOR CH 1/16W 10K 1 R6016 ER.1967/1013 M. RESISTOR CH 1/16W 10K 1 R6019 ER.1967/1013 M. RESISTOR CH 1/16W 10K 1 R6012 ER.19	
R4105	
R4105 ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 1 R6012 ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 1 R6014 ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 1 R6014 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6014 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6014 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6015 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6015 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6015 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6017 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6017 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6017 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 2 R6018 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 4 R6018 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 4 R6018 ERJ3GEYJ010 M. RESISTOR CH 1/16W 10K 4 R6020 ERJ3GEYJ010 M. RESISTOR CH 1/16W 10K 1 R602	
R4110	
R4110	
R4111, 12 ERJ3GEYG472 M. RESISTOR CH 1/16W 47. X 2 R6015 ERJ3GEYG105 M. RESISTOR CH 1/16W 10K 1 1 R6016 ERJ3GEYG107 M. RESISTOR CH 1/16W 10K 1 1 R6017 R60	
R4114 R4156, 16 R436EY473 M. RESISTOR CH 1/16W 10K 1 R6017 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6017 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6017 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6018 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6018 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6018 R416EY473 M. RESISTOR CH 1/16W 10K 4 R6020 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6020 R416EY473 M. RESISTOR CH 1/16W 47K 1 R6021 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6022 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6023 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6024 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6025 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6025 R416EY473 M. RESISTOR CH 1/16W 10K 1 R6026 R416EY470 M. RESISTOR CH 1/16W 10	
R4115, 16	
R4117_18	
R4119-22 R4136EYJ103 M. RESISTOR CH 1/16W 10K 4 R6019 R4136EYJ0R00 M. RESISTOR CH 1/16W 0 1 R6020 R4136EYJ104 M. RESISTOR CH 1/16W 10K 1 R6020 R4136EYJ104 M. RESISTOR CH 1/16W 10K 1 R6021 R4126	
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R4141, 42 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 2 R6068-71 ERJ3GEYJ121 M. RESISTOR CH 1/16W 120 4 R6072, 73 ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 2 R6074-76 ERJ3GEYJ473 M. RESISTOR CH 1/16W 100 1 R6074-76 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 1 R6074-76 ERJ3GEYJ102 M. RESISTOR CH 1/16W 10K 3 R4145 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 FOR VEP83356D/E/B R6077-80 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 4 R4145 ERJ3GEYJ155 M. RESISTOR CH 1/16W 1.5M 1 FOR VEP83356A R6081-85 ERJ3GEYJ03 M. RESISTOR CH 1/16W 0 5 R4146 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 R6087, 88 ERJ3GEYJ00 M. RESISTOR CH 1/16W 0 2 R4201,02 ERJ14YJ682 M. RESISTOR CH 1/4W 6.8K 2 R6089-92 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 4 R6089-92 R6089-	R VEP83356E/B
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R4206 ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 1 R6099 ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 1	
R4210 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1	
R4211,12 EBJ3GEYG472 M. RESISTOR CH 1/16W 4.7K 2 SW1001 VSS0367-04B SW1TCH 1	
R4213 ERJ3GEYG471 M. RESISTOR CH 1/16W 470 1 SW4101 VSS0367-06B SWITCH 1	
R4215, 16 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 2 SW4201 VSS0367-06B SWITCH 1	
R4217,18 EBJ3GEYJ153 M. RESISTOR CH 1/16W 15K 2 SW6001 VSS0342 SW1TCH 1	
R4219-22 ERJ3GEYJ103 M.RESISTOR CH 1/16W 10K 4	
R4223 ERJ36EYJ151 M.RESISTOR CH 1/16W 150 1 TG6 EYF6CU TEST POINT 1	
R4224 ERJ3GEYJ473 M. RESISTOR CH 1/16W 47K 1 TG3001 EYF6CU TEST POINT 1	
R4225 ERJ3GEYJ470 M.RESISTOR CH 1/16W 47 1 TG3300 EYF6CU TEST POINT 1	
R4226 ERJ3GEYJ104 M. RESISTOR CH 1/16W 100K 1 TG3500 EYF6CU TEST POINT 1	
R4227 ERJ3GEYJ103 M. RESISTOR CH 1/16W 10K 1 TG4001 EYF6CU TEST POINT 1	
R4228 ERJ3GEYJ101 M. RESISTOR CH 1/16W 100 1	
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R4230 ERJ3GEYJ222 M. RESISTOR CH 1/16W 2.2K 1	2
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R4232 ERJ3GEYJ272 M.RES1STOR CH 1/16W 2.7K 1 FOR VEP83356A TP3100,01 EYF6CU TEST POINT 2	
R4233 ERJ3GEYG472 M. RESISTOR CH 1/16W 4.7K 1 TP3200-03 EYF6CU TEST POINT 4	······································
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R4235 ERJ3GEYG152 M. RES1STOR CH 1/16W 1.5K 1 TP3500_08 EYF6CU TEST POINT 9	
R4236 ERJ3GEYJ223 M. RES1STOR CH 1/16W 22K 1 TP4001 EYF6CU TEST POINT 1	
R4238 ERJ3GEY0R00 M. RESISTOR CH 1/16W 0 1 FOR VEP83356A TP4004 EYF6CU TEST POINT 1	
R4239 ERJ3GEYJ104 M.RES1STOR CH 1/16W 100K 1 TP60 VEF 83336X TP404 ETF86U TEST POINT 4	
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VR4101 II VR4201 II X1 X2 X2 X2 X501	Part No. EVM7JGA00B14 EVM7JGA00B14 EVM7JGA00B14 VSX0645 VSX0886 VSX0937	Part Name & Description V.RESISTOR 10K V.RESISTOR 10K V.RESISTOR 10K	1 1	Remarks	Ref. No. C129 C130	Part No.	T. CAPACITOR CH 20V 4.7U T. CAPACITOR CH 35V 1.5U	n	1	Remarks
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X501		CRYSTAL OSCILLATOR		FOR VEP83356D/A FOR VEP83356E/B	C134 C135	ECUX1C104KBV ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U C. CAPACITOR CH 16V 0.1U		1	FOR VEP22251B
	VSX0637	CRYSTAL OSCILLATOR	1	TON VER 83330E/B	C136	ECUX1C104ZFN	C. CAPACITOR CH 16V 0.1U	-	- 1	FOR VEP22251B
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		The second section of the second section of the second second second second second second second second second			C142	ECUM1C105ZFN		-+	1	The second of th
			-	4	C143-45	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	+	3	
■ E9	VEP86258A	TEST PLUG P. C. BOARD	1	(RTL)FOR AJ-D215P/D200P	C146	ECST0JD157Z	E. CAPACITOR CH6. 3V 150U	+	1	Review one wine release two constructions a constructed to the construction of sections and to the construction of the co
■ E9	VEP86258B	TEST PLUG P. C. BOARD	1	(RTL) FOR AJ-D215HE/D200HE	C147	ECUM1C104ZFN		-	1	
	***************************************		ļ		C148	ECSTOJD157Z	E. CAPACITOR CH6. 3V 150U	1	1	
					C149	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U		1	AND VALUE AND AND A CONTROL OF THE PROPERTY OF
C6601-03	ECAOJM102	E. CAPACITOR 6.3V 1000U	3	FOR VEP86256B	C150	ECST0JD157Z	E. CAPACITOR CH6. 3V 150U	1	1	***************************************
			T.		C151	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	7	1	the business cannot be transferred to the control of the control o
D6601	MA142WK	DIODE	1		C152	ECUX1H270JCV		1	1	
					C153	ECST1CY685Z	T. CAPACITOR CH 16V 6.8U	1	1	
P6601	VJS3826A020	CONNECTOR (FEMALE)	1		C154	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U		1	
P6602	VJS3791B026	CONNECTOR (FEMALE)	1		C155	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	_	1	
P6603	VJP1923T	CONNECTOR (MALE)	1		C158	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	T	1	
	VJP3969A009	CONNECTOR (MALE)	1		C159	ECUX1H270JCV	C. CAPACITOR CH 50V 27P	I	1	
	VJP1597T	CONNECTOR (MALE) 4P	1	,	C161	ECUM1C104ZFN		I	1	
	VJS2889A026	CONNECTOR (FEMALE)	1		C162	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	I	1	
P6607	VJS2889A014	CONNECTOR (FEMALE)	1		C163	ECUX1H223ZFV		I	1	
				***************************************	C500	ECST0JX476Z	T. CAPACITOR CH6.3V 47U		1	
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0		FOR VEP86258A	C501	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	_	1	***************************************
	ERJ6GEYJ1R0	M. RESISTOR CH 1/10W 1		FOR VEP86256B	C504	ECST1AY106Z	T. CAPACITOR CH 10V 10U	1	1	FOR VEP22251B
	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0		FOR VEP86258A	C506	ECST0GY226Z	T. CAPACITOR CH 4V 22U	1	1	
R6602	ERJ6GEYJ2R2	M. RESISTOR CH 1/10W 2.2	1	FOR VEP86256B	C510-12	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	1	3	
			ļ	2	C513-15	ECUX1H390JCV	C. CAPACITOR CH 50V 39P		3	
			ļ		C516-20	ECUM1C104ZFN		4	5	
				***	C521 .	ECST0GY226Z	T. CAPACITOR CH 4V 22U	4	1	
	***************************************		ļ		C522	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	4	1	
= 510	VEDANVEEL 1	EVE ELEX D. C. BOARD	١.,	(07)	C523	ECUX1A224KBV	C. CAPACITOR CH 10V 0.22U	+		FOR VEP22251B
■ E10	VEP00Y55A-1	EVR FLEX P. C. BOARD		(RTL)	C523	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	+		FOR VEP22146A
			ļ		C524	ECUX1A105ZFV	C. CAPACITOR CH 10V 1U	4		
D2	V 1020C1	CONNECTOR (FEMALE)	1		C525-27	ECUM1C104ZFN ECUX1A105ZFV	C. CAPACITOR CH 16V 0.1U	+	3	
P3	VJS3961	CONNECTOR (FEMALE)			C528 C529	ECUXTATUSZEV ECUXTA224KBV	C. CAPACITOR CH 10V 1U C. CAPACITOR CH 10V 0, 22U	+	1	FOR VERGOGETE
					C529	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U			FOR VEP22251B FOR VEP22146A
					C530-45	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.04/0		16	FUR VEPZZ140A
					C546	ECUX1A224KBV	C. CAPACITOR CH 10V 0.22U		1	
					C546	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	+	1	FOR VEP22146A
■ E11	VEP22146A	SENSOR P. C. BOARD	1	(RTL)FOR AJ-D215P/D200P	C547		C. CAPACITOR CH 10V 1U	+	1	TON YEI ZZ 140A
	VEP22251B	SENSOR P. C. BOARD		(RTL) FOR AJ-D215HE/D200HE	C548, 49		C. CAPACITOR CH 16V 0.1U	+	2	The state of the s
			m		C550-58		C. CAPACITOR CH 50V 0.01U	+	9	
			l		C559	ECST0JX476Z	T. CAPACITOR CH6. 3V 47U	+	1	
C102	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		C560	ECST0JY475Z	T. CAPACITOR CH6. 3V 4. 7U	+	1	The Annual Conference of the C
		C. CAPACITOR CH 10V 1U	1		C561	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	+	1	
C104	ECST0JX476Z	T. CAPACITOR CH6.3V 47U	1		C562	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	\top	1	
C105	ECUX1C224ZFV	C. CAPACITOR CH 16V 0.22U	1		C563	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	1	1	
C107	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1		C564	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	T	1	
C109	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1		C565	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	T	1	
C111	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1		C566	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	J	1	
C112	ECUX1H130GCV	C. CAPACITOR CH 50V 13P		FOR VEP22251B	C567	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	T	1	The second secon
C112,13	ECUX1H130JCV	C. CAPACITOR CH 50V 13P	2	FOR VEP22146A	C568	ECUX1H060DCV	C. CAPACITOR CH 50V 6P	I	1	
C113	ECUX1H160GCV	C. CAPACITOR CH 50V 16U		FOR VEP22251B	C569	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	I	1	
C114		C. CAPACITOR CH 50V 10P	1	FOR VEP22251B	C570	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	Γ	1	
		C. CAPACITOR CH 50V 33P	1	FOR VEP22146A	C572,73		C. CAPACITOR CH 16V 0.1U	I	2	AND THE PERSON OF PERSON O
		C. CAPACITOR CH 10V 1U	1		C585	ECST1AY106Z	T. CAPACITOR CH 10V 10U	I	1	
		C. CAPACITOR CH 16V 0.1U		FOR VEP22251B	C586		C. CAPACITOR CH 10V 1U		1	
~~		T. CAPACITOR CH6.3V 47U		FOR VEP22251B	C589	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U		1	
		T. CAPACITOR CH6.3V 0.015U	1	FOR VEP22146A				Ĺ	1	
		C. CAPACITOR CH 10V 1U	. 1	- THE PROPERTY AND PARTY A	D101	F I TANKSON AND AND AND A CORNER OF	DIODE	1	1	
		C. CAPACITOR CH 10V 1U	1		D102-05	1\$\$355	D10DE		4	
		C. CAPACITOR CH 16V 0.1U	1		D106	MA728	DIODE	L	1	
		C. CAPACITOR CH 10V 1U	1	Committee from the committee of the comm	D107	ARREST AND ADDRESS OF THE PARTY	DIODE	1	1	- **
		C. CAPACITOR CH 50V 27P	1		D109		DIODE	L	1	
		C. CAPACITOR CH 50V 22P	2		D502-05	188355	DIODE	1	4	
C127, 28	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	2					ļ		
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Ref.No.	T	1		T D C N	1 15	10 11 0 10 1 1	
	Part No.	Part Name & Description	Pcs Remarks	Ref. No.		Part Name & Description	
FL501-03	VLF1173	FILTER	3	R120	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1 FOR VEP22251B
	N 11100 0 0 0 1			R120	ERJ2RHD332	M. RESISTOR CH 1/16W 3.3K	1 FOR VEP22146A
IC101	NJM2902V	IC	1	R121	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	
IC102	TC7SHU04FU	IC	1	R122	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	
1C103	AN2018S	IC	1	R123	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1 500 /5000510
1C104	TC7SH08FU	IC		R124	ERJ2GEJ273	M. RESISTOR CH 1/16W 27K	1 FOR VEP22251B
IC105	AN2018S	IC		R124	ERJ2RHD183	M. RESISTOR CH 1/16W 18K	1 FOR VEP22146A
IC106	MN5236			R125	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	
IC107,08	MB87882PFV	IIC		R126	ERJ2GEJ391	M. RESISTOR CH 1/16W 390	.
, IC109	TVHC04FT	IC	1	R127	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	500 15000550
IC110	TC7SH04FU	IIC	1	R128	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K M. RESISTOR CH 1/16W 33K	1 FOR VEP22251B
IC111	TC7SH08FU		The second secon	R128	ERJ2RHD333		1 FOR VEP22146A
IC112	TC7SH04FU	10	1	R129	ERJ2GEJ332 ERJ2RHD332	M. RESISTOR CH 1/16W 3.3K	1 FOR VEP22251B
IC113	AN2018S TC7SH32FU	IC		R129		M. RESISTOR CH 1/16W 3.3K	1 FOR VEP22146A
IC114	UPC2391GB	ic	1	R130	ERJ2GEJ183 ERJ2RHD183	M. RESISTOR CH 1/16W 18K M. RESISTOR CH 1/16W 18K	1 FOR VEP22251B
IC504	TA75W01FU	IC	1	R131	ERJ2GE0R00	M. RESISTOR CH 1/16W 18K M. RESISTOR CH 1/16W 0	1 FOR VEP22146A
10506	AK6480HF	16	1	R132	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1 FOR VEP22251B
1C507	MB88344PFV	IC	1	R132	ERJ2RHD333	M. RESISTOR CH 1/16W 33K	1 FOR VEP22146A
1C508	RN5RG46AA	IC	1 FOR VEP22251B	R133	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10300	ANDPOLICE		70 222310	R134	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1 FOR VEP22251B
L102	ELJPC100KF	COIL 10UH	1 FOR VEP22251B	R134	ERJ2RHD332	M. RESISTOR CH 1/16W 3.3K	1 FOR VEP22251B
L102	ELJPC6R8KF	COIL 6. 8UH	2	R135	ERJ2GEJ224	M. RESISTOR CH 1/16W 220K	1
L104,05	VLF1144A102	COIL 1000UH	2 FOR VEP22251B	R136	ERJ2GEJ272	M. RESISTOR CH 1/16W 2.7K	1 FOR VEP22251B
L104,03	ELJPC6R8KF	COIL 6.8UH	3	R136	ERJ2RHD272	M. RESISTOR CH 1/16W 2.7K	1 FOR VEP22146A
L109	ELJPA101KF	COIL 100UH	1 FOR VEP22146A	R137	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1 FOR VEP22146A
L109	VLQ0319K101	COIL 1000H	1 FOR VEP22251B	R137	ERJ2RHD682	M. RESISTOR CH 1/16W 4.7K	1 FOR VEP22146A
L110	ELJPA101KF	COIL 1000H	1 FOR VEP22146A	R138, 39	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	2
L110	VL00319K101	COIL 1000H	1 FOR VEP22251B	R140	ERJ2GEJ184	M. RESISTOR CH 1/16W 180K	1
L111	ELJPA101KF	COIL 100UH	1 FOR VEP22146A	R141	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	
L111	VLQ0319K101	COIL 100UH	1 FOR VEP22251B	R142	ERJ2GEJ105	M. RESISTOR CH 1/16W 1M	1
L112	ELJPC6R8KF	COIL 6.8UH	1	R143, 44	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2 FOR VEP22146A
L113	VLP0154	COIL	1	R145	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1
L114	ELJPA330KF	COIL 33UH	1 FOR VEP22146A	R146	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1
L114	VLQ0319K330	COIL 33UH	1 FOR VEP22146A	R147	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP22146A
L501	ELJPC150KF	COIL 15UH	1	R147	ERJ2GEJ101	M. RESISTOR CH 1/16W 100	1 F0R VEP22251B
L507	VLQ0319M6R8	COIL 6.8UH	1 FOR VEP22251B	R148	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP22146A
L508-10	ELJFC220JB	COIL 22UH	3	R148	ERJ2GEJ330	M. RESISTOR CH 1/16W 33	1 FOR VEP22251B
L512	ELJPC150KF	COIL 15UH	1	R149	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP22146A
L513	VLQ0319M6R8	COIL 6.8UH	1 FOR VEP22251B	R149	ERJ2GEJ330	M. RESISTOR CH 1/16W 33	1 FOR VEP22251B
***************************************				R150	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP22146A
PP101	VJP2962A026	CONNECTOR (MALE)	1	R150	ERJ2GEJ330	M. RESISTOR CH 1/16W 33	1 FOR VEP22251B
PP501	VJP3681B044	CONNECTOR (MALE)	1	R151	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP22146A
				R151	ERJ2GEJ330	M. RESISTOR CH 1/16W 33	1 FOR VEP22251B
0102	2SC3930	TRANSISTOR	1	R152	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP22146A
Q103	2SD2216	TRANSISTOR	1	R152	ERJ2GEJ330	M. RESISTOR CH 1/16W 33	1 FOR VEP22251B
0104	XP4601	TRANSISTOR-RESISTOR	1	R153	ERJ2GE0R00	M DECICTOR OU 1/10W A	
0105,06	2SC3930	THATOTOTOTI-HEOTOTOTI			LINOZOCOTIOO	M. RESISTOR CH 1/16W 0	1 FOR VEP22146A
Q107		TRANSISTOR	2	R153	ERJ2GEJ330	M. RESISTOR CH 1/16W 33	1 FOR VEP22146A 1 FOR VEP22251B
	XP4654			R153 R154	ERJ2GEJ330 ERJ2GEJ111		· · · · · · · · · · · · · · · · · · ·
Q501-03	XP4654 2SB1462	TRANSISTOR TRANSISTOR-RESISTOR TRANSISTOR	1 3		ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 330	1 FOR VEP22251B
0504	XP4654 2SB1462 2SB1073	TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR TRANSISTOR	2 1 3 3 1	R154 R501–06 R507	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 330 M. RESISTOR CH 1/16W 2.7K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A
Q504 Q505	XP4654 2SB1462 2SB1073 2SB970X	TRANSISTOR TRANSISTOR-RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 3	R154 R501–06 R507 R507	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 330 M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 3.9K	1 FOR VEP22251B 1 FOR VEP22251B 6
0504	XP4654 2SB1462 2SB1073	TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR TRANSISTOR	2 1 3 3 1	R154 R501-06 R507 R507 R508	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392 ERJ2GEJ272	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 330 M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 3.9K M. RESISTOR CH 1/16W 2. 7K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A 1 FOR VEP22251B 1
Q504 Q505 Q506	XP4654 2SB1462 2SB1073 2SB970X XP4601	TRANSISTOR TRANSISTOR-RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR-RESISTOR	2 1 3 1 1 1	R154 R501-06 R507 R507 R508 R509	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392 ERJ2GEJ272 ERJ2GEJ152	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 330 M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 3. 9K M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 1. 5K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A 1 FOR VEP22251B 1 1 FOR VEP22146A
Q504 Q505	XP4654 2SB1462 2SB1073 2SB970X	TRANSISTOR TRANSISTOR-RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2 1 3 3 1	R154 R501-06 R507 R507 R508 R509 R509	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392 ERJ2GEJ272 ERJ2GEJ152 ERJ2GEJ182	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 330 M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 3. 9K M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 1. 5K M. RESISTOR CH 1/16W 1. 5K M. RESISTOR CH 1/16W 1. 8K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A 1 FOR VEP22251B 1
Q504 Q505 Q506 QR502	XP4654 2SB1462 2SB1073 2SB970X XP4601 MRN1103	TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR—RESISTOR	2 1 3 1 1 1	R154 R501–06 R507 R507 R508 R509 R509	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392 ERJ2GEJ272 ERJ2GEJ152 ERJ2GEJ182 ERJ2GEJ182	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 3.9K M. RESISTOR CH 1/16W 3.9K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.8K M. RESISTOR CH 1/16W 2.7K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A 1 FOR VEP22251B 1 1 FOR VEP22146A 1 FOR VEP22251B 1 FOR VEP22146A 1 FOR VEP22146A
0504 0505 0506 0R502	XP4654 2SB1462 2SB1073 2SB970X XP4601 MRN1103 ERJ2GEJ105	TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR—RESISTOR M. RESISTOR CH 1/16W 1M	2 1 1 3 1 1 1 1 1 1 FOR VEP22146A	R154 R501–06 R507 R507 R508 R509 R509 R510	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392 ERJ2GEJ392 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ152	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.8K M. RESISTOR CH 1/16W 1.8K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.5K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A 1 FOR VEP22251B 1
0504 0505 0506 0R502 R101 R102	XP4654 2SB1462 2SB1073 2SB970X XP4601 MRN1103 ERJ2GEJ105 ERJ2GEJ222	TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR M. RESISTOR CH 1/16W 1M M. RESISTOR CH 1/16W 2. 2K	2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R154 R501-06 R507 R507 R508 R509 R509 R510 R511 R511	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ182 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ182	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.8K M. RESISTOR CH 1/16W 1.8K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 1.5K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A 1 FOR VEP22251B 1 1 FOR VEP22146A 1 FOR VEP22251B 1 FOR VEP22146A 1 FOR VEP22146A
0504 0505 0506 0R502 R101 R102 R102	XP4654 2SB1462 2SB1073 2SB970X XP4601 MRN1103 ERJ2GEJ105 ERJ2GEJ222 ERJ2RHD222	TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR M. RESISTOR CH 1/16W IM M. RESISTOR CH 1/16W 2. 2K M. RESISTOR CH 1/16W 2. 2K	2 1 1 3 1 1 1 1 1 1 FOR VEP22146A	R154 R501–06 R507 R507 R508 R509 R510 R511 R511 R511	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392 ERJ2GEJ152 ERJ2GEJ182 ERJ2GEJ182 ERJ2GEJ152 ERJ2GEJ182 ERJ2GEJ182 ERJ2GEJ182 ERJ2GEJ182 ERJ2GEJ182	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 110 M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.8K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 2.7K M. RESISTOR CH 1/16W 2.7K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A 1 FOR VEP22251B 1
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0504 0505 0506 08502 R101 R102 R102 R103, 04 R105 R106 R107 R108, 09 R110 R111 R111 R112 R112 R113 R113 R113 R114, 15 R116 R117, 18	XP4654 2SB1462 2SB1073 2SB970X XP4601 MRN1103 ERJ26EJ105 ERJ26EJ222 ERJ2RHD222 ERJ26EJ103 ERJ26EJ104 ERJ26EJ104 ERJ26EJ104 ERJ26EJ104 ERJ26EJ104 ERJ26EJ104 ERJ26EJ101 ERJ2RHD333 ERJ26HD333 ERJ26HD333 ERJ26EJ101 ERJ26EJ811 ERJ26EJ811 ERJ26EJ831 ERJ26EJ831	TRANSISTOR TRANSISTOR—RESISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR M. RESISTOR CH 1/16W 2. 2K M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 27K M. RESISTOR CH 1/16W 27K M. RESISTOR CH 1/16W 33K M. RESISTOR CH 1/16W 33K M. RESISTOR CH 1/16W 390 M. RESISTOR CH 1/16W 390 M. RESISTOR CH 1/16W 680 M. RESISTOR CH 1/16W 680 M. RESISTOR CH 1/16W 680 M. RESISTOR CH 1/16W 330 M. RESISTOR CH 1/16W 680 M. RESISTOR CH 1/16W 680 M. RESISTOR CH 1/16W 330	2 1 3 1 1 1 1 1 1 1 1	R154 R501-06 R507 R507 R507 R508 R509 R509 R509 R510 R511 R511 R511 R512 R513 R514 R515 R516 R516 R516 R516 R517 R518 R519 R520 R522 R523 R524 R525 R526	ERJ2GEJ330 ERJ2GEJ111 ERJ2GEJ331 ERJ2GEJ272 ERJ2GEJ392 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ152 ERJ2GEJ154 ERJ2GEJ154 ERJ2GEJ103 ERJ2GEJ681 ERJ2GEJ681 ERJ2GEJ681 ERJ2GEJ681 ERJ2GEJ681 ERJ2GEJ681 ERJ2GEJ681 ERJ2GEJ681 ERJ2GEJ103 ERJ2GEJ103 ERJ2GEJ103 ERJ2GEJ103 ERJ2GEJ154 ERJ2GEJ103 ERJ2GEJ154 ERJ2GEJ154 ERJ2GEJ154 ERJ2GEJ154 ERJ2GEJ163 ERJ2GEJ103 ERJ3GEYG103 ERJ3GEYG103 ERJ3GEYG103 ERJ3GEYG103 ERJ3GEYG103	M. RESISTOR CH 1/16W 33 M. RESISTOR CH 1/16W 330 M. RESISTOR CH 1/16W 3.30 M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 1. 5K M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 1. 5K M. RESISTOR CH 1/16W 2. 7K M. RESISTOR CH 1/16W 1. 5K M. RESISTOR CH 1/16W 1. 5K M. RESISTOR CH 1/16W 1. 5K M. RESISTOR CH 1/16W 3. 3K M. RESISTOR CH 1/16W 33K M. RESISTOR CH 1/16W 33K M. RESISTOR CH 1/16W 3. 3K M. RESISTOR CH 1/16W 1. 5K	1 FOR VEP22251B 1 FOR VEP22251B 6 1 FOR VEP22146A 1 FOR VEP22146A 1 FOR VEP22146A 1 FOR VEP22146A 1 FOR VEP22251B 1 FOR VEP22251B 1 FOR VEP22251B 1 FOR VEP22251B 1 FOR VEP22251B 1 FOR VEP22251B 1 FOR VEP22251B 1 FOR VEP22251B

Ref.No.	Part No.	Part Name & DescriptionP	es Remarks	Ref.No.	Part No.	Part Name & Descrip	tion!	es,	Remarks
	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	C307-10	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.	10	4	
R529	ERJ2GEJ681	M. RESISTOR CH 1/16W 680	1	C311, 12	ECST0JY156Z		150	2	
		M. RESISTOR CH 1/16W 1K	1	C313-16	ECUM1C104ZFN		. 10	4	
		M. RESISTOR CH 1/16W 680	1	C317	ECST0JX476Z		47U	1	
		M. RESISTOR CH 1/16W 10K	1	C318, 19	ECUM1C104ZFN		. 10	2	
	ERJ3GEYG513	M. RESISTOR CH 1/16W 51K	2	C320	ECST1AY106Z		100	1	
		M. RESISTOR CH 1/16W 10K	1	C321,22	ECUM1C104ZFN		. 10	2	
		M. RESISTOR CH 1/16W 1K		C323	ECSTOJX476Z		47U	1	
		M. RESISTOR CH 1/16W 1.5K	2	C324, 25	ECUM1C104ZFN		. 10	2	
		M. RESISTOR CH 1/16W 20K	1 FOR VEP22251B	C326, 27 C328–38	ECSTOJX476Z		470	2	
R539		M. RESISTOR CH 1/16W 20K	1 FOR VEP22146A 1 FOR VEP22251B	C328-38	ECUM1C104ZFN ECST0GY226Z		. 1U 22U	11	
R540		M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 100K	1 FOR VEP22146A	C341, 42	ECUM1C104ZFN	and the first of the second se	. 10	2	
R540		M. RESISTOR CH 1/16W 100K	1 FOR VEP22251B	C341, 42	ECSTOJX476Z		47U	1	
R541	~~~~~	M. RESISTOR CH 1/16W 100K	1 FOR VEP22146A	C344	ECUX1H050CCV	C. CAPACITOR CH 50V	5P	1	
R541 R542	ERJ2RHD683X	M. RESISTOR CH 1/16W 68K	1 FOR VEP22251B	C345	ECUX1H332KBV		00P	1	
R542	ERJ3GEYG683	M. RESISTOR CH 1/16W 68K	1 FOR VEP22146A	C346	ECUX1H101JCV		00P	1	
R549	ERJ2GEJ100	M. RESISTOR CH 1/16W 10	1	C347	ECST0GY226Z		22U	1	
R550	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	C348	ECUX1H151JCV		50P	1	
R551	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	C349	ECUX1H050CCV	C. CAPACITOR CH 50V	5P	1	
R552, 53	ERJ2GEJ560	M. RESISTOR CH 1/16W 56	2	C350	ECUM1C104ZFN		. 10	1	FOR VEP23422B
R554	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	C351	ECUX1H223ZFV	C. CAPACITOR CH 50V 0.0		1	
R555	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	C352	ECUX1C474KBN		47U	1	
R556	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1	C353	ECUM1C104ZFN		.10	1	parramental de la company de l
R557	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	C354	ECUX1H060DCV	C. CAPACITOR CH 50V	6P	. 1	lass sperioden and an action resources and this if incommendate in deferment on the original services of the contract of the c
R558	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	C355-57	ECUX1H223ZFV	C. CAPACITOR CH 50V 0.0	22U	3	
R559	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	C358	ECST0JX476Z	T. CAPACITOR CH6.3V	47U	1	
R560-62	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	3	C359	ECUX1H080CCV	C. CAPACITOR CH 50V	8P	1	A CONTRACTOR OF THE CONTRACTOR
R563-65	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	3	C360	ECA1CM471B	E. CAPACITOR 16V 4	70P	1	FOR VEP23285B
R566	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	1	C361	ECUM1C104ZFN	C. CAPACITOR CH 16V 0	. 10	1	
R567	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1	C701	ECUM1C104ZFN	C. CAPACITOR CH 16V 0	. 10	1	
R568	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	C702	ECST0JX476Z	T. CAPACITOR CH6. 3V	47U	1	FOR VEP23422B
R569	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1	C703	ECST1AY106Z		100	1	
R570	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	C704	ECST0JY106Z		100	1	
R571	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1	C709	ECUX1H332KBV		00P	1	
R572	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	C711	ECST1AY106Z		100	1	
R573-75	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	3	C712	ECST0JY106Z		100	1	Marie Carlotte of No. 14 and No. 14 and No. 14 and No. 15 and No. 15 and No. 14 and No.
R576	ERJ2GEJ822	M. RESISTOR CH 1/16W 8.2K	1	C713	ECUM1H104ZFN		. 10	1	
R577	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	C714, 15	ECUM1C104ZFN		. 10	2	Manager of Contract and Manager and Contract of State of
R578	ERJ2GEJ154	M. RESISTOR CH 1/16W 150K	1	C716	ECSTOJY106Z		10U 22U	1	
R579	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1	C717	ECUX1C224ZFV ECEV1CA470P		47U	1	
R580	ERJ2GEJ154 ERJ2GEJ560	M. RESISTOR CH 1/16W 150K M. RESISTOR CH 1/16W 56	1	C718	ECUX1H103ZFV		010	1	
R581 R582	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K	1	C720	ECUX1A105KBN	C. CAPACITOR CH 10V	10	1	·
R583	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K	1	C721	ECUX1H102KBV		00P	1	CALL AND REAL PROPERTY CONTRACTOR
R584	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1	C724, 25	ECUX1H103ZFV		010	2	
	LINZOLOTIO			C726	ECUM1C104ZFN		. 10	1	***************************************
W101,02	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	2 FOR VEP22146A	C727	ECST0JY106Z		10U	1	and the second s
W105,06	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	2	C728	ECUMIC104ZFN	C. CAPACITOR CH 16V 0	. 10	1	
W107	ERJ6GEY0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP22146A	C729	ECUM1C105ZFN	C. CAPACITOR CH 16V	10	1	THE PARTY OF THE P
W110-12	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	3	C730			. 10	1	
				C731	ECUM1C105ZFN	C. CAPACITOR CH 16V	10	1	
X101	VSC0685	CRYSTAL OSCILLATOR	1 FOR VEP22146A	C732	ECUM1C104ZFN	C. CAPACITOR CH 16V 0	. 10	1	
X101	VSX0819	CRYSTAL OSCILLATOR	1 FOR VEP22251B	C733	ECUX1H102KBV	C. CAPACITOR CH 50V 10	00P	1	
				C734,35			. 10	2	
		MISCELLANEOUS		C736		C. CAPACITOR CH 50V 0.0		1	
				C741			. 10	_ 1	
	VSC4220	CAMERA SHIELD CASE (A)	1 FOR VEP22146A	C742	ECUM1C105ZFN	C. CAPACITOR CH 16V	10	1	**************************************
	VSC4221	CAMERA SHIELD CASE (B)	1 FOR VEP22146A						
	VMZ2539	SENSOR SHIELD BARRIER	1 FOR VEP22146A	D301	1\$\$355	DIODE		1	
				FP301	VJS3320B026	CONNECTOR (FEMALE)		1	a companie and an experience of the companies of the comp
				FP302	VJS3320B040	CONNECTOR (FEMALE)		1	
				FP303	VJS3320B020	CONNECTOR (FEMALE)		.1	1999 11 9 15 5 15 15 15 15 15 15 15
			(07)	FP304	VJS3320B014	CONNECTOR (FEMALE)		1	
■ E12	VEP23285B	PROCESS P. C. BOARD	1 (RTL)FOR AJ-D215P/D200P	FP305	VJS3452A013	CONNECTOR (FEMALE)		1	
■ E12	VEP23422B	PROCESS P. C. BOARD	1 (RTL) FOR AJ-D215HE/D200HE	FP701	VJS2960A024	CONNECTOR (FEMALE)		. 1	M & & M. W. 11
						110			
		The second secon		IC301	XC61AN2712M	IC		1	FOR VERGOCOST
C301	ECSTOJY156Z	T. CAPACITOR CH6.3V 15U	1	1C302	MN1020701M6Z	IIC			FOR VEP23285B
C302	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1	1C302	MN1020701M8J	10		1	FOR VEP23422B
C303	ECSTOJY156Z	T. CAPACITOR CH6.3V 15U		1C303	UPC2384GA	IC	.	1	
	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	1	1C304	MN67344A1	10		1	
C304				1C305	MN67343A2	IC	- 1	1	
C305	ECSTOGY226Z	T. CAPACITOR CH 4V 22U	1	10000	MMAZOEE	lic	. 1		END VED2320ED
	ECST0GY226Z ECST0JY156Z	T. CAPACITOR CH 4V 22U T. CAPACITOR CH6.3V 15U	1	1C306	MN4795F	IC		1	FOR VEP23285B

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Ref.No.		Part Name & Description		Remarks	Ref. No.	Part No.	Part Name & Description Pcs Remarks
1C306		IC		FOR VEP23422B	R336	ERJ2GE0R00	M. RESISTOR CH 1/16W 0 1
1C307		IC	1	FOR VEP23285B	R337	ERJ2GEJ221	M. RESISTOR CH 1/16W 220 1
1C307	MSM548333	IC	1	FOR VEP23422B	R338	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K 1
1C308	TA75W01FU	IC	_ 1		R339, 40	ERJ2GEJ101	M. RESISTOR CH 1/16W 100 2
IC309-11	MN65761	IC	3		R341,42	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K 2
1C312	LZ9GA11	IC	1		R343, 44	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K 2 FOR VEP23285B
IC313	TC7SH08FU	IČ	1	FOR VEP23422B	R345	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K 1
1C316	XC62AP2502M	IC	1		R346-53	ERJ2GEJ101	M. RESISTOR CH 1/16W 100K 8 FOR VEP23285B
IC317	TC4S584F	IC	_ 1		R354, 55	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K 2
IC318	TC7SH04F	IC	1	FOR VEP23285B	R356, 57	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K 2
1C701	TC4S584F	IC	1		R358-70	ERJ2GEJ101	M. RESISTOR CH 1/16W 100K 13 FOR VEP23285B
IC702	LB1830M	IC	. 1		R371-78	ERJ2GEJ331	M. RESISTOR CH 1/16W 330 8
1C703	TB6512AF	IC	1		R379-83	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 5
1C704	TA75W01FU	IC	1		R384, 85	ERJ2GEJ101	M. RESISTOR CH 1/16W 100 2 FOR VEP23285B
IC705	TC9074F	īc	1		R386	ERJ2GE0R00	M. RESISTOR CH 1/16W 0 1 FOR VEP23285B
10706,07	NJM2902V	IC	2		R387,88	ERJ2GEJ101	M. RESISTOR CH 1/16W 100 2 FOR VEP23285B
10708	MN1882421M3J	IC	1	FOR VEP23285B	R701	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K 1
1C708	MN1882421M8K	IC	1	FOR VEP23422B	R702	ERJ2GEJ224	M. RESISTOR CH 1/16W 220K 1
					R703	ERJ2GEJ823	M. RESISTOR CH 1/16W 82K 1
L301	VLQ0319M6R8	COIL 6.8UH	1	FOR VEP23422B	R704,05	ERJ3GEYG303	M. RESISTOR CH 1/16W 30K 2
L303-05	ELJPC6R8KF	COIL 6.8UH	3		R706,07	ERJ3GEYJ3R3	M. RESISTOR CH 1/16W 3,3 2
L306	ELJPA330KF	COIL 33UH	1	FOR VEP23285B	R708	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1
L306	VLQ0319K330	COIL 33UH	1	FOR VEP23422B	R709	ERJ3GEYG123	M. RESISTOR CH 1/16W 12K 1
L307	ELJPA330KF	COIL 33UH		FOR VEP23285B	R710	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K 1
L307	VLQ0319K330	COIL 33UH		FOR VEP23422B	R711	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K 1 FOR VEP23285B
L308	ELJPC6R8KF	COIL 6.8UH	1		R711	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K 1 FOR VEP23285B
L309	VLQ0319M6R8	COIL 6.8UH	, 1		R712	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 1
L310-12	VLP0154	COIL	3		R713	ERJ2GEJ103	M, RESISTOR CH 1/16W 10K 1
L313-15	ELJPC6R8KF	COIL 6.8UH	3		R714	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K 1
L313-15	VLP0154	COIL	1		R715	ERJ2GEJ104	M. RESISTOR CH 1/16W 100K 1
L317	ERJ3GEYJ270	M. RESISTOR CH 1/16W 27	1		R716	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K 1
	VLP0154	COIL	1		R717	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220 1
L319	ELJPC6R8KF	COIL 6.8UH			R718	ERJ2GEJ225	M. RESISTOR CH 1/16W 2.2M 1
L320	ELJPA101KF	COIL 100UH		FOR VEP23285B	R719	ERJ2GE0R00	M. RESISTOR CH 1/16W 0 1
L321		COIL 1000H	-	FOR VEP23422B	R721	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K 1
L321	VL00319K101	COIL 1000H	-	FOR VEP23285B	R722	ERJ2GEJ183	M. RESISTOR CH 1/16W 18K 1
L322	ELJPA101KF		-	FOR VEF23203B	R723	ERJ2GEJ154	M. RESISTOR CH 1/16W 150K 1
L322	VL00319K101	A STATE OF THE PARTY AND ADDRESS OF THE PARTY		SECTION SECTION AND INSULATE ASSESSMENT ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT	R724	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K 1
L323	ELJNA1R5JF		-	FOR VEP23422B	R725	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1
L324-27	VLP0154	COIL					M. RESISTOR CH 1/16W 1.2K 1
L330	ELJPA6R8MF	COIL 6.8UH	<u> </u>	FOR VEP23285B	R726	ERJ3GEYG122	
L330	VLQ0319M6R8	COIL 6.8UH		FOR VEP23422B	R727	ERJ2GEJ223	
L701	ELJPC6R8KF	COIL 6.8UH		TO THE RESIDENCE OF THE PROPERTY OF THE PROPER	R728	ERJ2GEJ683	
L702	ELJPC220KF	COIL 22UH	-		R729	ERJ2GEJ183	
L703,04	ELJPC6R8KF	COIL 6.8UH			R730	ERJ2GEJ682	M. RESISTOR CH. 1/16W 6. 8K 1
L705	ELJPA150KF	COIL 15UH		FOR VEP23285B	R731	ERJ2GEJ683	M. RESISTOR CH 1/16W 68K 1
L705	VLQ0319K150	COIL 15UH	-	FOR VEP23422B	R732	ERJ2GEJ563	M. RESISTOR CH 1/16W 56K 1
L706	ELJPC150KF	COIL 15UH	-		R733	ERJ2GEJ224	M. RESISTOR CH 1/16W 220K 1
L707	ELJPA331KF	COIL 330UH	ļ	FOR VEP23285B	R734, 35	ERJ2GEJ123	M. RESISTOR CH 1/16W 12K 2
L707	VLQ0319K331	COIL 330UH		FOR VEP23422B	R736	ERJ2GEJ474	M. RESISTOR CH 1/16W 470K 1
		(ļ		R737	ERJ2GEJ394	M. RESISTOR CH 1/16W 390K 1
PP701	VJP3644B034	CONNECTOR (MALE)	1		R739	ERJ2GEJ183	M. RESISTOR CH 1/16W 18K 1
			-		R740	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K 1
PS301	VJS3683A044	CONNECTOR (FEMALE)			R741	ERJ2GEJ563	M. RESISTOR CH 1/16W 56K 1
			-		R742	ERJ2GEJ393	M. RESISTOR CH 1/16W 39K 1
Q704	XP4501	TRANSISTOR-RESISTOR	1		R743	ERJ2GEJ822	M. RESISTOR CH 1/16W 8.2K 1
		TO LAC LOTTE DECLETE	-		R744	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K 1
QR701	XP1211	TRANSISTOR-RESISTOR		Market & San Assessed State . And San Asses East State	R745	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K 1
		W. DEGLOTOS AND A COMMISSION	-	JEON VENOS 4000	R746	ERJ2GEJ682	M. RESISTOR CH 1/16W 6.8K 1
R301,02	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1-	FOR VEP23422B	R747, 48	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K 2
R303	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K		FAR MERANGES	R749	ERJ3GEYG103	M. RESISTOR CH 1/16W 10K 1
R304	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP23285B	R750	ERJ3GEYG303	M. RESISTOR CH 1/16W 30K 1
R305-07	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1.3	S	R751	ERJ2GEJ154	M. RESISTOR CH 1/16W 150K 1
R308	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1 1	***************************************	R752	ERJ3GEYJ181	M. RESISTOR CH 1/16W 180 1
R309, 10	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1.3		R753	ERJ2GE0R00	M. RESISTOR CH 1/16W 0 1 FOR VEP23285B
R311	ERJ2GEJ153	M. RESISTOR CH 1/16W 15K	1		R754	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K 1
R312	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K	1		R756	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K 1
R313, 14	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1.2		R757	ERJ2GEJ223	M. RESISTOR CH 1/16W 22K 1
R315-17	ERJ2GEJ392	M. RESISTOR CH 1/16W 3.9K	13		R758	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K 1
R318, 19	ERJ2GEJ152	M. RESISTOR CH 1/16W 1.5K	1.2	FOR VEP23285B	R759,60	ERJ2GEJ333	M. RESISTOR CH 1/16W 33K 2
R320-28	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1		R761	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K 1
R330	ERJ2GEJ472	M. RESISTOR CH 1/16W 4.7K	1		R762	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 1 FOR VEP23285B
R331,32	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1 2		R763	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K 1
R333	ERJ2GEJ222	M. RESISTOR CH 1/16W 2.2K			R765-68	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K 4
R334	ERJ2GEJ103	M. RESISTOR CH 1/16W 10K	1		R769	ERJ2GEJ473	M. RESISTOR CH 1/16W 47K 1
R335	ERJ2GEJ123	M. RESISTOR CH 1/16W 12K	Li		R770-79	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K 10
				The state of the s			
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Ref. No.	Part No.	Part Name & DescriptionPo	s Remarks	Ref.No.	Part No.	Part Name & DescriptionP	cs Remarks
		M. RESISTOR CH 1/16W 0	1		VG03306	IR PLATE SPACER	1
			2		VDL0397	IR CUT FILTER	1
		M. RESISTOR CH 1/16W 10K	2	1			
		M. RESISTOR CH 1/16W 4.7K	1				
	A COLUMN TO LAND TO THE PARTY OF THE PARTY O	M. RESISTOR CH 1/16W 1M	2	-			
		M. RESISTOR CH 1/16W 1K	1	h	l		
		M. RESISTOR CH 1/16W 0	1				
			1	■ E14	VEP00U25B	VTR START P.C.BOARD	1 (RTL)
			-	B L14	VLI 00023B	TIN STANT T.C.BOARD	T (IIIE)
		M. RESISTOR CH 1/16W 10K					
		M. RESISTOR CH 1/16W 0	7				
R801-04	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	4	SW1	EVQQSB04B	SWITCH	1
R805	ERJ2GEJ102	M. RESISTOR CH 1/16W 1K	1				age of the second of the secon
R806	ERJ2GEJ332	M. RESISTOR CH 1/16W 3.3K	1 FOR VEP23285B			MISCELLANEOUS	
RA301-03	EXB24V103J	COMBI.R-R 10K	3		VST0321	TOGGLE SW	1
	EXB24V101J	COMBI.R-R 100	8		VEE0A97	VTR START CABLE	1
	EXB24V103J	COMBI.R-R 10K	1				
	EXB24V331J	COMBI.R-R 330	2 FOR VEP23285B		A MANUTO OR STATE TO A STATE OF THE STATE OF	AND THE PERSON NAMED AND ADDRESS OF THE PERSON OF THE PERS	The second of the second contract of the seco
	EXB24V101J	COMBI.R-R 100	2 FOR VEP23285B		<u> </u>		
		COMBI.R-R 10K	1				
PA317	EXB24V103J		6	.	-		
***************************************	EXB24V102J	COMBI.R-R 1K	6	F1 C1 C	VED96142D	OPERATE D.C. DCARD	1 (DTI)
	EXB24V103J	COMBI.R-R 10K	Z TOP VEROCES	■ E15	VEP86143B	OPERATE P.C.BOARD	1 (RTL)
RA326-35	EXB24V101J		10 FOR VEP23285B		-		
RA336,37	EXB24V103J	COMBI.R-R 10K	2 FOR VEP23285B				
RA338	EXB24V101J	COMBI.R-R 100	1 FOR VEP23285B	D6001-03	BR1102W-1	DIODE	3
RA339	EXB24V103J	COMBI.R-R 10K	1 FOR VEP23285B				
RA340, 41	EXB24V152J	COMBI.R-R 1.5K	2 FOR VEP23422B	P501	VJP3125B010	CONNECTOR (MALE)	1
RA342-45	EXB24V101J	COMBI.R-R 100	4 FOR VEP23285B				
	1	1		SW6001-05	EVQPHL03T	SWITCH	5
TH701	VRT0035K152	THERMISTOR	1				The second secon
10701	VN10033K132	THETWISTOR				MISCELLANEOUS	
		W 55010700 011 1/10W	ALOD ALDOSOSED			MIGCELLANEOUS	
₩302,03	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	2 FOR VEP23285B		V/CE0240	ODEDATE CADIE	1
W305	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B		VEE8349	OPERATE CABLE	
W305	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1 FOR VEP23285B		VEE0A91	OPERATE SW CABLE	1
W307	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1 FOR VEP23285B				
W311	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B				
W313	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B				
W315	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1				
W317	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B				
W322	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B	■ E16	VEP80A15A	TOGGLE SW P. C. BOARD	1 (RTL)
	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1		· · · · · · · · · · · · · · · · · · ·		
W327	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B		-		
W328		M. RESISTOR CH 1/10W 0	1 FOR VEP23285B	J1	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1
W330	ERJ6GEY0R00				LIOUGETOTIO	mericororori on 17 ton	
₩332	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B	D0300	VJP1610T	CONNECTOR (MALE)	1
W334	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B	P9300	VOPIBIUI	CONNECTOR (MALE)	
W704	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23285B	l -			
₩705	ERJ2GE0R00	M. RESISTOR CH 1/16W 0	1 FOR VEP23422B	SW9300,01		SWITCH	2
				SW9302	VST0187	SWITCH	
X301	EF0S1005E5	CERAMIC RESONATOR	1	SW9303	VST0320	SWITCH	1
X701	EF0S1205E5	CERAMIC RESONATOR	1				
<u> </u>						MISCELLANEOUS	
 	-				VMP4267	P. C. B. HOLDER ANGLE	1

					 		The second secon
E -10	VEDROASOA	ATW SENSOR P. C. BOARD	1 (RTL)		1		
■ E13	VEP80A32A	ALMOUNT. C. DUAND	I WHE		-	· · · · · · · · · · · · · · · · · · ·	
			and the second s				
	***************************************			F F47	VEDOCATO:	DOWED CW D C DOADS	11/PTI)
C1	ECST0JY106Z	T. CAPACITOR CH6.3V 10U	1	■ E17	VEP80A16A	POWER SW P. C. BOARD	1 (RTL)
C2	ECST0JY475Z	T. CAPACITOR CH6.3V 4.7U	1		ļ		
C3	ECUM1C104KBN	C. CAPACITOR CH 16V 0.1U	1				
I		12		P9400	VJP1607T	CONNECTOR (MALE)	11
IC1	M52944FP	IC	1				
				SW9400	VST0299	TOGGLE SWITCH	1
	VLQ0464	COIL	1				
L1							
L1	1	CONNECTOR (FEMALE)	11				
	V 1934524014	JOSTINEOTOTI (I ENIMEL/				T	
L1 P1	VJS3452A014	1		l			
P1		TRANSPORTER PROJECTOR	1	1 1			
	VJS3452A014 UN2212	TRANSISTOR-RESISTOR	1	- LE C10	VEDOOA174	NODE CHECK B C BOARD	1 (PTI)
P1	UN2212		1	■ E18	VEP80A17A	MODE CHECK P.C.BOARD	1 (RTL)
P1		TRANSISTOR-RESISTOR M. RESISTOR CH 1/16W 10K	1	■ E18	VEP80A17A	MODE CHECK P.C. BOARD	1 (RTL)
P1 01	UN2212		1				1 (RTL)
P1 01	UN2212		1	E18	VEP80A17A VJP1607T	MODE CHECK P. C. BOARD CONNECTOR (MALE)	1 (RTL)
P1 01	UN2212	M. RESISTOR CH 1/16W 10K	1		VJP1607T		1 (RTL)
P1 01	UN2212 ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1				1 (RTL)
P1 Q1	UN2212	M. RESISTOR CH 1/16W 10K MISCELLANEOUS	1	P9401	VJP1607T	CONNECTOR (MALE)	1 (RTL)

0.0 1.0 Part May Part Name & Description 10 10	D I	D . M	D N 0 D	, pl.	D.C.M	D M	Don't New C D	D 1
## 27 OPPOSITE ON P. C. EMBO	Ref.No.	Part No.	Part Name & Description Co	s Kemarks				Remarks
Page Page					100008,09	MC14338BF	110	- 4
Page Page					P6501	V IP161AT	CONNECTOR (NALE)	1
PROSECUTION PROPERTY PROCESS PROPERTY PROCESS PROPERTY PROCESS ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Personal								1
VPW0270 SHITCH	■ E19	VEP80A18A	MONITOR VR P.C.BOARD	1 (RTL)				1 FOR VEP86264A
MARCH MARC								
					06501,02	2SD968-R	TRANSISTOR	2
Page Page	VR9200	VRV0270	SWITCH	1				
■ E20					QR6501,02	UN5213	TRANSISTOR-RESISTOR	2
■ COUNTING DISTRICT ■ COUNTI					QR6503	UN5211	TRANSISTOR-RESISTOR	1
■ 600 PRIOR MATERIAL BOOK UP P.C. (BOMP) ■ 1 (FTL) ■ 8000					QR6504	UN5213	TRANSISTOR-RESISTOR	1
## 200					QR6505		TRANSISTOR-RESISTOR	1
MIDCELLAREUS								1
RESIDE RESIDE RESIDENCE RESIDE RESIDENCE R	■ E20	VEP80A19A	BACK UP P.C.BOARD	1 (RTL)	QR6509	UN5213	TRANSISTOR-RESISTOR	11
RESIDE RESIDE RESIDENCE RESIDE RESIDENCE R								
							~ 	
BC2004 BTTEV MCLEN 1			MISCELLANEOUS					
R851-02 R852-02 R852-03 R851-03 R851		Deposits	DATTEDY HOLDED	1				
March Mar		DCHZUH4	DATIENT NULUEN					
						•		1
■			MALES FOR AN ADMINISTRATION OF THE PROPERTY OF				· · · · · · · · · · · · · · · · · · ·	
■ E21							······································	
■ E21								
PRINCE PRINCE	■ F21	VEP80A21A	FLEX RING P.C.BOARD	1 (RTL)				1
MESION PROSECOK SHITCH							·· /	1
Seption Strong				***************************************			·	11
	SW9100	EVQQS205K	SWITCH	1				2
## E22 VEPR6256A S DISE P.C. BOARD 1 (RTL) FOR A.1-0219P ME, DECEMBER 1 (RTL)					R6534	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	1
■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PD 1 [RIL]FOR AJ-0219PAE_PD00/PE ■ C22 PEPBR254A S SIDE P.C. 200/PE SIDE S SIDE					R6535	ERJ6GEYG155	M. RESISTOR CH 1/10W 1.5M	1
■ E22 VEPB8258A 8 SIDE P.C.BOARD 1 (RTL)FOR AJ-D219P/RE/2020NE					R6536	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1
■ E22					R6538	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1
					R6540	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	11
	■ E22	VEP86264A	R SIDE P.C.BOARD	1 (RTL)FOR AJ-D215P/HE/D200HE	R6542	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1
	■ E22	VEP86259A	R SIDE P.C.BOARD	1 (RTL)FOR AJ-D200P	R6543	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1
C6501, Q2 ECMMIRIDADING C.CAPACITOR CH 50V 2P 2 R6500 ERJ66EYP122 M. RESISTOR CH 1/10W 10K 1					R6544			1
GS503, Q ECMINITS DATE: C.APACTOR CH 50V 15P 2	***************************************							4
C6550 C62AU,K3331 C.CAPACITOR 6.3V A7U 1				····			······································	11
C6506 C620_KS331 C.APACITOR 6.3V 330U 1								111
C6515 C62A				1				<u> </u>
C6516 ECROLKS470 E.CAPACITOR 6.3V 47U 1				1				
C6517 COUNTEIOAZEN C. CAPACITOR CH 25V 0, IU 1 1 1 1 1 1 1 1 1		***************************************		1				
C6518 ECUNITIONERM C. CAPACITOR CH 16V 1U 1 1 1 1 1 1 1 1				1				
C6519 ECUMIE104ZFN C. CAPACITOR CH 25V 0.1U 1 1 1 1 1 1 1 1 1				1				
C6520 ECEAJUSS331 E. CAPACTOR 15V 4.7U 1				1				<u> </u>
C6521 CCEAICSNAR7 E. CAPACTOR 16V 4.7U 1				1	****			2 FOR VEP86264A
C6522 ECEAIEKS3R3 E.CAPACITOR 25V 3.3U 1				1				
C6523 ECRAJISNA70 E. CAPACITOR 6. 3V 47U 1 FOR VEP86264A SW6505-07 VSS0186 SWITCH 3 SW6505-07 VSS0186 SW6505-07	NAMES OF TAXABLE PARTY OF TAXABLE PARTY.				SW6501-04	EVQQSB04B	SWITCH	4
C6524 ECUXIE104KBN C. CAPACITOR CH 25V 0.1U 1 1 1 1 1 1 1 1 1				1 FOR VEP86264A				3
C6525, 26 ECEAUKS330 E. CAPACITOR 6.3 33 2				1				
C6528 ECUXIE104KBN C. CAPACITOR CH 25V 0.1U 1		ECEA0JKS330	E. CAPACITOR 6.3V 33U	2	TP6501-04	EYF6CU	TEST POINT	4
C6529 ECAO_KS470 E. CAPAC_ITOR 6.3	C6527	ECEA1CKS100	E. CAPACITOR 16V 10U	1				
C6530 ECUXIE104KBN C. CAPACITOR CH 25V 0.1U 1 1 1 1 1 1 1 1 1	C6528			1	VR6501,02	VRV0080	V.RESISTOR	2
C6531 ECEATCKS100 E. CAPACITOR 16V 10U 1				1				
C6532-34 ECUXIE104KBN C. CAPACITOR CH 25V 0. 1U 3 X6501 VSX0094C CRYSTAL OSCILLATOR 1 X6502 VSX0140 CRYSTAL OSCILLATOR 1 X6502 X6502 VSX0140 CRYSTAL OSCILLATOR 1 X6502 X6				1	W51-63	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	13 FOR VEP86264A
X6502 VSX0140 CRYSTAL OSCILLATOR 1			······································	1				
D6501—06 MA142K D10DE 6 6	C6532-34	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3			·	
D6508 MA142K D10DE					X6502	VSX0140	ICHYSTAL OSCILLATOR	1
D6510-13 MA142K				1				
De514 HZ16-1L DIODE 1				1				Mark and particular particular and antique and antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and an antique and antique and an antique and an antique and an antique and an antique and an antique and an antique and antique and antique and antique and antique and antique antique and antique and antique and antique antique and antique antique antique and antique antique and antique ant
D6515 MA704 D10DE			DIODE	1				
D6516 MA142K			columns of the column and the column	1		anni shan in chiang an arang a		TOTAL TO A COMMENT OF A COMMENT
D6518-22 MA142K	L			1	■ F23	VFP270864	H DEE P C ROARD	1 (RTI)
IC6501							Jei T. G. DVAID	. (112/
C6502 S8420BF IC 1	1		THE RESERVE AND ADDRESS OF THE PARTY OF THE					
C6502 S8420BF IC 1	IC6501	UPD75316BE83	lic	1	C7401.02	ECEA1AGE221	E. CAPACITOR 10V 220U	2
C6503 NJU7112AM IC 1				1				1
IC6504 S81350HG IC 1 C7407 ECEA1HGE101 E. CAPACITOR 50V 100U 1 IC6505 MC14013BF IC 1 C7408,09 ECKD3A472MEH C. CAPACITOR IKV 4700P 2 IC6506 MC14001BF IC 1 C7410 VCF0066J223 P. CAPACITOR 160V 0.022U 1				1		·		1
IC6505 MC14013BF IC 1 C7408,09 ECKD3A472MEH C. CAPACITOR IKV 4700P 2 IC6506 MC14001BF IC 1 C7410 VCF0066J223 P. CAPACITOR 160V 0.022U 1			······································	1				1
1C6506 MC14001BF IC 1 1 C7410 VCF0066J223 P. CAPACITOR 160V 0. 022U 1			Market	1	Commence of the second of	W117000-07-06-07-07-07-08-08-08-08-08-08-08-08-08-08-08-08-08-	the same and the s	2
			IC ·	1	C7410			1
		MC14011BF	lic T	1	C7414	VCF0066J182	P. CAPACITOR 160V 1800P	
		L						

Ref.No.		Part Name & DescriptionPc	Remarks	Ref.No.		Part Name & Description	res .	Remarks
		C. CAPACITOR 6.3V 33P				C. CAPACITOR CH 50V 220P	1	
		E. CAPACITOR 10V 220U		C7040	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	
				C7041	VCF0066J223	P.CAPACITOR 160V 0.022U	1	
D7401	EC11FS2	DIODE		C7044	ECCF1H331JC	C. CAPACITOR 50V 330P	1	
		DIODE				. 00 1 1 7 00 10 10 10 10 10 10 10 10 10 10 10 10		
		DIODE		D7001	MA3180	DIODE	1	^
		DIODE		.,,	EC100S0412	DIODE	1	
D7405	MA142K	DIOUE	and the same of th		MA142K	DIODE	1	
		OO!!!			MA143	DIODE	1	
		COIL 22UH		D7004	MA 143	DTODE.		wa wa ee
L7403	VL0EL06F220J	COIL 22UH	1	107001	TI 50010D0	1.0	++	
L7404	VLQ0620	COIL		1C7001	TL5001CPS	IC		
				107002	HA11423MP	IC .	+:+	
P7007	VJP2264	CONNECTOR (MALE)	1	107003	AN77L09M	IC .	1-4-	
P7011	VJP1232T	CONNECTOR (MALE) 5P	1			A COLUMN TO THE THE PROPERTY AND ADMINISTRATION OF THE PROPERTY OF THE PROPERT	LL	
P7013	VJP1595T	CONNECTOR (MALE) 2P	1	L7001	VL00177K151	COIL 150UH	1	
				L7002-04	VLQ0319M6R8	COIL 6.8UH	3	
07402,03	2SK1954	TRANSISTOR	2					
				P7002	VJP1597T	CONNECTOR (MALE) 4P	1	
R7405	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	P7014	VJP1595T	CONNECTOR (MALE) 2P	1	
R7406	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	P7016	VJP2277	CONNECTOR (MALE)	1	The second secon
	ERDS2TJ222	C. RESISTOR 1/4W 2.2K	11					
R7408		M. RESISTOR CH 1/16W 1M	2	07001	2SD1819A-R	TRANSISTOR	11	
R7409, 10	ERJ3GEYJ105		2	07002	2SB1218A-R	TRANSISTOR	11	AND ADDRESS VALUE OF A STATE OF THE ADDRESS OF THE
	ERJ3GEY0R00		2	Q7002	2SJ278	TRANSISTOR	tit	
R7413,14	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	4		2SD1819A-R	TRANSISTOR	+++	MANAGEM MANAGEMENT WAS TO THE CONTRACT OF THE
R7417	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	07005			+#	
R7418 ·	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	07006	2SC3624	TRANSISTOR	+#	
R7419	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	07007	2SD1819A-R	TRANSISTOR	+:!	I AMBO IN TORONO TO THE PERSON OF THE PERSON OF THE PERSON OF THE THE THE THE TRANSPORTER PROPERTY SERVICES AND THE
R7420	ERJ3GEYJ910	M. RESISTOR CH 1/16W 91	1	07008	2SA1411	TRANSISTOR	+4	
				Q7010	2SD1819A-R	TRANSISTOR	11	and the second s
⚠ T7401	ETF18L34A	TRANSFORMER	1				11	
	-			⚠ R7001	ERQ16NK1R0	F. RESISTOR 1	1	
TP7401	EYF6CU	TEST POINT	1	R7002	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
17.101				R7003	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	
TPG	EYF6CU	TEST POINT	1	R7004,05	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2	
110	L11 000			R7006	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
\#D7400	TVAR DOLOGRA	V.RESISTOR 1M	1	R7007	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
VR7402	EVMLRGA00B16	V.RESISTOR 500K	1	R7008	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	· · · · · · · · · · · · · · · · · · ·
VR7403	EVML3GA00B55	V. RESISION 300K		R7010	ERJ6RBD183	M. RESISTOR CH 1/10W 18K	+ 7	AND THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY AN
				R7011	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1	
					ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1-1	
				R7013		M. RESISTOR CH 1/16W 470K	11	
				R7014	ERJ3GEYJ474		+-;	
				R7015	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	+-	AND THE RESIDENCE AND ADDRESS OF THE RESIDENCE OF THE RES
■ E24	VEP27087A	V DEF P.C.BOARD	1 (RTL)	R7016	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	14	
				R7017	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	+4	and appropriate the state of th
				R7018	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	11	
C7001	ECA1EF0121	E. CAPACITOR 25V 120U	1	R7019	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K	11	
C7002	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	R7020	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	1	
C7003	ECA0JKF121	E. CAPACITOR 6.3V 120U	1	R7021	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	1	
C7005	ECGC1BB4R7	C. CAPACITOR 12V 4.7P	1	R7022	ERJ6RBD133	M. RESISTOR CH 1/10W 13K	1	
C7007		C. CAPACITOR CH 25V 0.1U	1	R7023	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
C7009	ECUM1C105ZFN		1	R7024	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
		T. CAPACITOR CH 16V 1U	1	R7025	RD10UMB1	DIODE	1	
C7010	ECST1CY105Z	C. CAPACITOR CH 25V 0.023U	1	R7026	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	MICHAEL CONTRACT MARKET MARKET TOURS AND ASSESSMENT MARKET. SO THE TO THE MARKET MARKE
C7011	ECUX1E223KBV		11	R7027	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	***************************************
C7012	ECUX1E104ZFV	~	1	R7028	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	+ i	
C7013	ECSF1VM105X	E. CAPACITOR 35V 1M		R7029	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	11	
C7014	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1			M. RESISTOR CH 1/16W 220	-	***************************************
C7015	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P		R7030	ERJ3GEYJ221			THE PERSONNEL PROPERTY AND ADDRESS OF THE PERSON OF THE PE
- C7016	ECUM1H222JN	C. CAPACITOR CH 50V 2200P	1	R7032	ERJ6RBD103		1	
C7017	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1	R7033	ERJ6RBD682	M. RESISTOR CH 1/10W 6.8K	1 !	
C7018	ECUM1C105ZFN		1	R7034	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	4-4	
C7019	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	R7035	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	4-1	
C7020	ECST1CY105Z	T. CAPACITOR CH 16V 1U	1	R7036	ERJ3GEYJ4R7	M. RESISTOR CH 1/16W 4.7	1	
C7021	ECST1CY335Z	T. CAPACITOR CH 16V 3.3U	1	R7037	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	. 1	
C7022	ECUX1H472KBV		1	R7038	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	. 1	to the second of the second of
C7022	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	R7039	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	
	ECUX1E104ZFV		1	R7040	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
C7024		E. CAPACITOR 6.3V 120U	1	R7041	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
C7025	ECA0JKF121	AND THE RESIDENCE OF THE PARTY	2	R7042	ERJ3GEYJ120	M. RESISTOR CH 1/16W 12	1	man paral attention to the first of the same and
C7026, 27		T. CAPACITOR CH 16V 10U	1		ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	+ 1	
C7028	ECUX1H272KBV	C. CAPACITOR CH 50V 2700P	1	R7043		M. RESISTOR CH 1/16W 2.2K	1 ;	and the second of the second
C7029	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1	R7050	ERJ3GEYJ222		-	
C7033	ECA1CKF560	E. CAPACITOR 16V 56U	1	R7051	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	+!	
C7035	VCEA1CAP330	C. CAPACITOR 16V 33U	1	R7052	ERJ3GEYJ912	M. RESISTOR CH 1/16W 9.1K	1 !	
C7036	ECA0JKF121	E. CAPACITOR 6.3V 120U	1	R7053	ERJ3GEYJ512	M. RESISTOR CH 1/16W 5.1K	11	
C7037	ECUM1H222JN	C. CAPACITOR CH 50V 2200P	1	H .	1		1]	a mark to the total
C7038	VCEA1EAP150	E. CAPACITOR 25V 15U	1	TP7001,02	EYF6CU	TEST POINT	2	
	1				T			
0,000								

Q7306 Q7307 Q7308 Q7309 Q7310 Q7311 Q7312	2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R 2SC4181 2SD1819A-R	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
07306 07307 07308 07309 07310	2SB1218A-R 2SK316-Q 2SB1218A-R 2SD1821-R	TRANSISTOR TRANSISTOR TRANSISTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-			
07306 07307 07308 07309	2SB1218A-R 2SK316-Q 2SB1218A-R	TRANSISTOR TRANSISTOR	1				-	
07306 07307	2SB1218A-R		1				1	
07306			11	I L			ł	
	2SA1411	TRANSISTOR	1		VGF0529 VGH4055	BLIND SHEET HOUR METER COVER		A CONTRACTOR OF STREET, STREET
07305	2SC3624	TRANSISTOR	1		XTN2+4G	SCREW	2	
Q7301-04	2SD1819A-R	TRANSISTOR	4		VJF0900	CRT HOLDER (1)	1	
P7015	VJP1606T	CONNECTOR (MALE) 2P	1		VEE8848	CRT MASK CABLE	1	
P7004	VJP2315	CONNECTOR (MALE) CONNECTOR (MALE) 2P	1			MISCELLANEOUS	+ .	
w. v						WOCELL ANEOUG	1	
1C7301	TC7S32F	IC IC	1	D506	PR2232S	LED	1	
IC7301	TC7S04F	1C	1	D501-05	AY2232S	DIODE	4	
DL7301	VLD0259	DELAY LINE	The same of the sa	D501	BG2232S	DIODE	-	
D7307 D7308	E562 MA143	DIODE	1	■ E 27	VEP27090C	CRT MASK P.C.BOARD	1	(RTL)
D7303, 04		LED D10DE	1				-	
D7301,02		DIODE	2				-	
C7315,16 C7317	ECAOJKF560	E. CAPACITOR 6.3V 56U	1	***************************************			T	
C7314		C. CAPACITOR CH 50V 220P C. CAPACITOR CH 25V 0.1U	2		VMX1658	LED HOLDER	2	
C7313	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1			MISCELLANEOUS	+	
C7309,10	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2			HI COST LANGUE	1	
C7305	ECUX1H330JCV		1	VR7303	EVUFNAE03B15	V. RESISTOR 100K	1	
C7304 C7305	ECST1AC226Z	T. CAPACITOR CH 10V 22U	1	VR7301	EVUFNAE03B55	V. RESISTOR 500K	1	
C7303	ECST1AC226Z	T. CAPACITOR CH 10V 22U C. CAPACITOR CH 16V 1U	The second of th	VR7301	EVUFNAE03B13	V. RESISTOR 1K	+-	
C7302	ECST1CC156Z	T. CAPACITOR CH 16V 15U	1	TPG	EYF6CU	TEST POINT	1	
C7301	ECEA1HGE470	E. CAPACITOR 50V 47U	1					
				TP7301	EYF6CU	TEST POINT	1	
■ E26	VEP27089A	FRONT P.C.BOARD	1 (RTL)	SW7301-03	VSS0186	SWITCH	3	
				087000	V000100	CWITCH	<u> </u>	
				R7348		M. RESISTOR 1/4W 47K	1	•
				R7347	ER0S2CKG2701	M. RESISTOR 1/4W 2.7K	Ţi	
				R7345	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
TPG	EYF6CU	TEST POINT	1	R7341 R7342	ERJ3GEYJ104 ERJ3GEYJ103	M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 10K		
				R7339	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	1	<u> </u>
R7205-09	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	5 -	R7338	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R7203 R7204	ERJ3GEYJ271 ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	The second secon	R7336	ERJ3GEYG473	M. RESISTOR CH 1/16W 47K	ti	
R7202 .	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K M. RESISTOR CH 1/16W 270	1	R7335		C. CAPACITOR CH 50V 0.5P	1	
R7201	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	R7331 R7332, 33	ERJ3GEYJ101 ERJ6RBD562	M. RESISTOR CH 1/16W 100 M. RESISTOR CH 1/10W 5.6K	1 2	
				R7330	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	1	
QR7202-05	UN5214	TRANSISTOR-RESISTOR		R7329	ERJ6RBD682	M. RESISTOR CH 1/10W 6.8K	1	
Q7201	2SB1218A-R	TRANSISTOR	I	R7328	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	
	00010101	TDANCISTOR	1	R7326 R7327	ERJ6RBD222 ERJ3GEYJ184	M. RESISTOR CH 1/10W 2.2K M. RESISTOR CH 1/16W 180K	1 1	
P7009	VJP1600T	CONNECTOR (MALE)	1	R7325	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
P7008	VJP1599T	CONNECTOR (MALE)	1	R7322-24	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	3	
P7003	VJP3450	CONNECTOR (MALE)	1	R7321	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
P7003	VJP3450	CONNECTOR (MALE)	1	R7317 R7318	ERJ6GEY0R00 ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	-	
				R7316	ERJ6RBD223	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 0		
E25	VEP27088A	CN P. C. BOARD	1 (RTL)	R7315	ERJ6RBD913	M. RESISTOR CH 1/10W 91K	1	
				R7314	ERJ3GEYG224	M. RESISTOR CH 1/16W 220K	1	
**			OUT TO THE PERSON OF THE PERSO	R7313	AND AND THE RESIDENCE WAS THE TOTAL	M. RESISTOR CH 1/16W 3.3K	Ti	AND THE RESERVE OF THE PARTY OF
				R7311 R7312	ERJ3GEYJ333 ERJ3GEYJ103	M. RESISTOR CH 1/16W 33K M. RESISTOR CH 1/16W 10K	1	
				R7310		M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 33K	1	14.1 B. (14.1 B.)
VR7006	EVM7JGA00B53	V.RESISTOR 5K	1	R7309	Charles to have the an interest of the series.	M. RESISTOR CH 1/16W 100	1	dan (man periode) . He paragraph has a manage a permanent and manage in the contract of the
VR7005	VRV0113B500	V. RESISTOR 50	1	R7308		M. RESISTOR CH 1/16W 4.7K	1	
		V. RESISTOR 200	1	R7307		M. RESISTOR CH 1/16W 100	1	_
VR7002 VR7003		V. RESISTOR 500	1			M. RESISTOR CH 1/16W 47K	2	
VR7001	W. L. C. C. COMMISSION NO. 100-100-110-110-110-110-110-110-110-110	V.RESISTOR 500 V.RESISTOR 5K	1	R7303 R7304		M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 180	1	
				R7302		M. RESISTOR CH 1/16W 20K	1	
TPG	EYF6CU	TEST POINT	1	R7301	man to the second second	M. RESISTOR CH 1/16W 10K	1	
Ker. No.	raic no.	Tare remo de reconstructions				S. L. J. L.		λ.
Ref.No.	Part No.	Part Name & Description	cs Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks

Ref. No.	Part No.	Part Name & Description) _{CS}	Remarks	Ref.No.	Part No.	Part Name & Descript	ion	Pes	Remarks
		PRE SHUFFLE P.C.BOARD		(RTL)FOR AJ-D215HE	C3625	ECUX1H390JCV	C. CAPACITOR CH 50V 39	Р	1	
**********************		PRE SHUFFLE P.C.BOARD	1	(RTL)FOR AJ-D200HE	C3626	ECUX1H070DCV	C. CAPACITOR CH 50V	P	1	
					C3627		C. CAPACITOR CH 50V 100		1	
					C3628	to be in the same of the same of	C. CAPACITOR CH 50V 2		1	
C3007, 08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C3629	ECUX1H270JCV	C. CAPACITOR CH 50V 2			
C3010		C. CAPACITOR CH 25V 0.1U	1		C3630	ECUX1H103KBV	C. CAPACITOR CH 50V 0.0		-	1
C3012		C. CAPACITOR CH 25V 0.1U			C3631 C3632	ECUX1H470JCV ECST1CC336Z	T. CAPACITOR CH 50V 4 T. CAPACITOR CH 16V 3	rut r		
C3013		E. CAPACITOR CH6.3V 47U C. CAPACITOR CH 25V 0.1U			C3632	ECUX1H560JCV	C. CAPACITOR CH 50V 5		-	1
C3014		C. CAPACITOR CH 25V 0.1U E. CAPACITOR CH6.3V 47U	+		C3635, 36	ECUX1H220JCV	C. CAPACITOR CH 50V 2			2
C3015	ECEV0JV4700 ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	i	- A A A A A A A A A A A A A A A A A A A	C3637	ECUX1H103KBV	C. CAPACITOR CH 50V 0.0		1	1
C3026 C3027	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1		C3638	ECUX1H220JCV	C. CAPACITOR CH 50V 2	P		1
C3031	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	and the state of t	C3640	ECUX1H103KBV	C. CAPACITOR CH 50V 0.0	Ū		1
C3033	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	-1		C3641	ECUX1H151JCV	C. CAPACITOR CH 50V 15	P		1
C3034	ECEV0JV470Q	E. CAPACITOR CH6.3V 47U	1		C3642	ECUX1H561JCV	C. CAPACITOR CH 50V 56	*********		1
C3055	ECEVOJV470Q	E. CAPACITOR CH6.3V 47U	1		C3643, 44	ECST1CC336Z		3U	-	2
C3057	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3645, 46	ECUX1C105KBM		IU Tu		2
C3064	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C3647	ECUX1E473KBN	C. CAPACITOR CH 25V 0.04 C. CAPACITOR CH 25V 0.	*******	-	2
C3065	ECEV0JV470Q	E. CAPACITOR CH6.3V 47U	5		C3648, 49 C3650	ECUX1E104ZFV ECUX1E473KBN	C. CAPACITOR CH 25V 0.04		+	1
C3101-05	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 25V 0.1U	2		C3651	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	***************************************	 	1
C3110, 11	ECUX1E104ZFV ECUX1H103KBV	C. CAPACITOR CH 25V 0.1U	1		C3652	ECST1CC336Z		3U	1	1
C3203 C3204	ECEVOJV3300	E. CAPACITOR CH6.3V 33U	1		C3653	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.		1-	1
C3204	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3654	ECUX1E473KBN	C. CAPACITOR CH 25V 0.04	7U	T	1
C3207	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1		C3655	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	10	I	1
C3209-11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3		C3656	ECEVOJV4700		7U		1
C3212	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C3657, 58	ECUX1H103KBV	C. CAPACITOR CH 50V 0.0			2
C3213	ECUX1H102JV	C. CAPACITOR CH 50V 1000P	1		C3664	ECUX1H150JCV		5P	-	1
C3234,35	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C3667	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.		+-	1
C3242	ECUX1C473KBV	C. CAPACITOR CH 16V 0.047U	1		C3668 C3670	ECEV0JV4700		3U 7U	+-	1
C3243	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 25V 0.1U	+-;		C3672	ECUX1H220JCV		2P	+	1
C3250	ECEV0JV4700	C. CAPACITOR CH 25V 0.1U E. CAPACITOR CH6.3V 47U	1		C3678	ECEVOJV470Q		7U	+-	1
C3251 C3252	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3679	ECEA0JU331	E. CAPACITOR 6.3V 33	**********	1	1 FOR VEP83357A
C3252	ECEVOJV470Q	E. CAPACITOR CH6. 3V 47U	1	- The second sec	C3679	VCE0200	E. CAPACITOR		T	1 FOR VEP86286A
C3254	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	.	C3801-04	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	10		4
C3263	ECEVOJV470Q	E. CAPACITOR CH6.3V 47U	1		C3805	ECUX1H220JCV	C. CAPACITOR CH 50V 2	2P	1	1
C3264	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3806	ECUX1H120JCV		2P		1
C3272	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1		C3807, 08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.			2
C3273	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		C3809	ECUX1H103KBV	C. CAPACITOR CH 50V 0.0	10 2P		1
C3274	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	-		C3810 C3811	ECUX1H220JCV ECUX1H103KBV	C. CAPACITOR CH 50V 2 C. CAPACITOR CH 50V 0.0		+-	1
C3275	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	+-	Manager and specific and specif	C3812-14	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	-	-	3
C3276	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U C. CAPACITOR CH 25V 0.1U	+		C3816	ECUX1H390JCV		9P		1 FOR VEP83357A
C3279 C3280, 81	ECUX1E104KBN ECEV0JV3300	E. CAPACITOR CH6. 3V 33U	+ ;	and a second contract contract of the contract	C3816	ECUX1H560JCV	- CARROLL COME OF REPORT AND A CARROLL AND A	6P	1.	1 FOR VEP86286A
C3280, 81	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3817, 18	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.	10		2
C3301-04	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	4		C3819	ECEV0JV3300	E. CAPACITOR CH6.3V	3U		1
C3308, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3820	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.			1
C3313	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U			C3821	ECEV07A3300		30	-	1
C3403,04	VCK0152	C. CAPACITOR	1		C3822		C. CAPACITOR CH 25V 0.	10	1	1
C3405	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3830	VCE0200	E. CAPACITOR CH SOV O	111	+-	2
C3406	ECST1CC336Z	T. CAPACITOR CH. 16V 33U	+-		C3902, 03	ECUX1H103KBV ECUX1H103KBV	C. CAPACITOR CH 50V 0. C		1-	1
C3407	VCK0151	C. CAPACITOR CH. FOV. O. 0111	+		C3906 C3920	ECUX1H103kBV		9P	+	1
C3408, 09	ECUX1H103KBV VCK0151	C. CAPACITOR CH 50V 0.01U	+:		C3921-25	ECUX1H103KBV	C. CAPACITOR CH 50V 0.0		+	5 FOR VEP86286A
C3410 C3411	ECUX1C224KBN	C. CAPACITOR CH 16V 0.22U	+		C3928	ECUX1H390JCV		9P		1 FOR VEP86286A
C3411 C3412, 13		C. CAPACITOR CH 10V 0.220	1		C6301-36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.			6 FOR VEP86286A
C3412, 13	VCK0151	C. CAPACITOR	†	and the state of t	C6337	ECUX1H271JCV	C. CAPACITOR CH 50V 27	0P	1	1 FOR VEP86286A
C3415-17		C. CAPACITOR CH 50V 0.01U	1	3	C6338	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.		- 1-	1 FOR VEP86286A
C3602, 03		C. CAPACITOR CH 50V 15P		2	C6339	ECUX1H120JCV		2P		1 FOR VEP86286A
C3605,06		C. CAPACITOR CH 50V 0.01U	1	2	C6340	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.		***	1 FOR VEP86286A
C3608	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1.	A MARKET OF THE REPORT OF THE PARTY OF THE P	C6341	ECUMICIOSZEN		10	1 .	1 FOR VEP86286A
C3609	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	***************************************	C6342	ECUX1H120JCV		2P		1 FOR VEP86286A
C3610	ECEV0JV470Q	E. CAPACITOR CH6.3V 47U	+ :	and the second s	C6344-52	ECUX1E104ZFV ECUX1E104ZFV	C. CAPACITOR CH 25V 0. C. CAPACITOR CH 25V 0.		-1	9 FOR VEP86286A 1 FOR VEP86286A
C3611	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	+-:		C6360 C6362	ECEVOJV1010	E. CAPACITOR CH6.3V 10		+	1 FOR VEP86286A
C3612	ECUX1H070DCV	C. CAPACITOR CH 50V 7P	+-	, management of a second second second	C6364	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.		+-	1 FOR VEP86286A
C3613	ECUX1H101JCV	C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P	+-:	m	C6366, 67	ECEVOJV2200	The second control of the second state of the second	20		2 FOR VEP86286A
C3614	ECUX1H220JCV ECUX1H270JCV	C. CAPACITOR CH 50V 27P	+		C6369-74	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.			6 FOR VEP86286A
C3615 C3616	ECUX1H270JCV	C. CAPACITOR CH 50V 47P	1						1	
C3617	ECST1CC336Z	T. CAPACITOR CH 16V 33U	1		D3201	MA142K	DIODE		1	1
C3618	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		D3203, 04	MA704	DIODE		ľ.	2
C3620	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U			D6302,03	LN1251CAL	DIODE		1	2 FOR VEP86286A
C3623	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U					1		1	
C3624	ECEV0JV4700	E. CAPACITOR CH6.3V 47U] 1	Name of the Control o	DL3602	VLD0265	DELAY LINE		1	1
		The court species on continuous and the term of the continuous and the	_		ļ	ļ			ļ.,	
		1	1	1	1	1	1		1	1

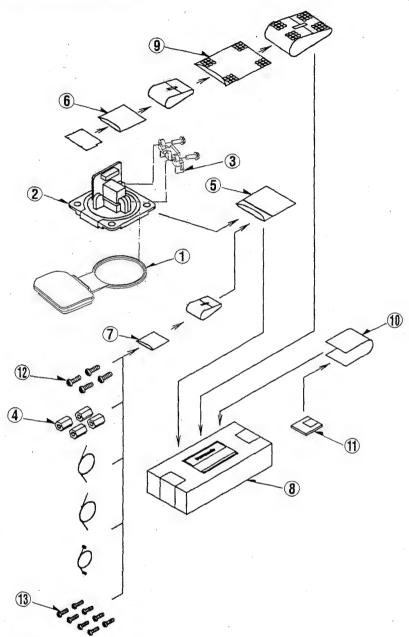
D.C.N.	1) (A)	D -t Name & Dogumintian		Remarks	Ref.No.	Part No.	Part Name & Description	0,	s Remarks
Ref.No.	Part No.	Part Name & Description	CH	Кешат ка	L3614	VLQ0426J560	COIL 56UH	1	I Komer No
El 2000 04	VLF0941C223	FILTER	3		L3618	VL00319K101	COIL 100UH		I
	- 1	FILTER	1	•	L3801	VL00426J220	COIL 22UH	1	1
		FILTER	1	,		VL00319K101	COIL 100UH	1	2
FL6301,02		FILTER	2	FOR VEP86286A	L6301-03	VLP0119	COIL	1	3 FOR VEP86286A
120301,02	142/							1	
1C3006	XC62AP5002P	IC	1		P1	VJS3791B036	CONNECTOR (FEMALE)		1
IC3008		ic	1		P2	VJS3806E140	CONNECTOR (FEMALE)		1 FOR VEP83357A
		IC	1		P3	VJP3125B006	CONNECTOR (MALE) 6P		1
103101,02		ic -	2		P6301,02	VJP3125B006	CONNECTOR (MALE) 6P		2 FOR VEP86286A
IC3103	UG10358B	IC	1		P6305	VJS3806E140	CONNECTOR (FEMALE)		1 FOR VEP86286A
IC3201	EL4583CS	IC	1	we we a man and man a man and a man	P6306, 07	VJS3406D014	CONNECTOR (FEMALE)		2 FOR VEP86286A
1C3202	TC7W14FU	ic .	1					1	
IC3203	NVHC04FT	IC	1	and the second s	03201	2SD1819A-R	TRANSISTOR	-	
IC3205	TC7W125FU	IC	1		Q3601-04	2SD1819A-R	TRANSISTOR	-	4
1C3206	NJM062M	IC	1		03606	2SD1819A-R	TRANSISTOR	-	1
1C3210	EHDGA1489G	1C -	1		Q3608	2SD1819A-R	TRANSISTOR	-	1
IC3213	XC62AP5002P	IC	I		Q3609 Q3610-12	2SA1532-C 2SB1218A-R	TRANSISTOR TRANSISTOR	+-	3
1C3301	T163G26-1022	IC	1	and the contract of the contra	03613	2SD1819A-R	TRANSISTOR	+	1
103305	NVHC74FT	10	<u>ا</u> ص		03616	2SB1218A-R	TRANSISTOR	+	1
103306,07	TC4W53FU	I.C IC	1		Q3617	2SA1532-C	TRANSISTOR	+	1 FOR VEP86286A
IC3402 IC3601	MN657021F TC7SH08FU	IC	1		Q3801	XN4501	TRANSISTOR-RESISTOR	+	1
1C3601	AD817AR	16	1		Q3804	2SB1218A-R	TRANSISTOR	+	1
1C3602	AD826AR	IC	<u> </u>		Q3805	2SD1819A-R	TRANSISTOR	T	1
1C3604	M51272FP	IC	1		03806	XN4501	TRANSISTOR-RESISTOR	T	1
1C3608-10		IC	3					T	
IC3611	XC62AP5002P	IC	1		QR3301	UN5213	TRANSISTOR-RESISTOR	I	1
IC3801	AD826AR	IC	_1	Advance to the second s	QR3801	XP4312	TRANSISTOR-RESISTOR	L	1
1C3802	AD817AR	IC .	1		QR6301	UN5214	TRANSISTOR-RESISTOR	_	1 FOR VEP86286A
IC3901	T160G41-1437	IC	1						
103903	CG25123-5106	IC	1		R3021	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP83357A
1C3904	CY7C19920ZC	10	1		R3044	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP86286A
IC3907	TC7S04FU	IC .	1		R3044	VLF1149A182	COIL 1800UH		1 FOR VEP83357A
1C3910	CY7C19920ZC	10	1		R3045	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP86286A
1C6301	M31010M6104H	ic	1	FOR VEP86286A	R3045	VLF1149A182	COIL 1800UH M. RESISTOR CH 1/16W 0		1 FOR VEP83357A 2 FOR VEP86286A
1C6302	MAX3223CAP	IC	- 1	FOR VEP86286A	R3046, 47 R3102	ERJ3GEY0R00 ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP83357A
1C6303	S80727ANDQ	IC	1	FOR VEP86286A	R3104	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP83357A
106304,05		IC IC	1	FOR VEP86286A FOR VEP86286A	R3106	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP83357A
106306	TVHC244FT	IC IC	1	FOR VEP86286A	R3107-14	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	-	8
1C6307 1C6308	TVHC240FT TVHC14FT	IC	1	FOR VEP86286A	R3115	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	+	1 FOR VEP83357A
1C6309	MBLV80B12PFT	IC .	1	FOR VEP86286A	R3116	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	+	1
106310, 11	KM68V1CLTE7L	lic	2	FOR VEP86286A	R3120	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	1
IC6312	TC7SH04FU	Tic	1	FOR VEP86286A	R3122-24	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		3 FOR VEP83357A
IC6313	TSB13LV11PBW	IC	1	FOR VEP86286A	R3126	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K		1 FOR VEP86286A
106314	TC7SH04FU	IC	1	FOR VEP86286A	R3128	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP86286A
IC6315	MB81V4260S7	IC	1	FOR VEP86286A	R3130	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	_	1 FOR VEP86286A
106317	UPD65849G032	IC .	. 1	FOR VEP86286A	R3203	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K		1
1C6318	TVHC244FT	1C		FOR VEP86286A	R3204	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	-	
106319,20	TVHC245FT	IC .		FOR VEP86286A	R3205	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	-	1
106321	TVHC163FT	IC	1	FOR VEP86286A	R3206	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	+	1 1
		The period of the second of th	ļ	TOD VEDO20571	R3207	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	+	1
L3101,02	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 2	FOR VEP83357A	R3208	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 22K	+	1
L3103	VLF1315A102	FILTER		FOR VEP83357A	R3213 R3216	ERJ3GEYJ223 ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	+	11
L3104,05	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	- 4	I ON YEF0333/A	R3217	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	+	1
L3201-03	VL00319K101 VLP0155	COIL 100UH	1	e. And An	R3220	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	-	1 FOR VEP83357A
L3207 L3208	VLQ0319K101	COIL 100UH			R3221	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	+	1
L3208 L3210	VLQ0319K101	COIL 1000H	1		R3266	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	+	1
L3263	VLQ0319K101	COIL 100UH	1		R3268	ERJ3GEYJ684	M. RESISTOR CH 1/16W 680K	1	1
L3264	VL00313K101	COIL 220UH	i		R3272	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	1
L3300-07	VLP0155	COIL	8		R3274	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	1 FOR VEP83357A
L3309-19	VLP0155	COIL	11		R3276	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	I	1 FOR VEP83357A
L3402	VLQ0464K6R8	COIL 6.8UH	1		R3278	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP83357A
L3601	VLQ0426J220	COIL 22UH	1		R3280	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP83357A
L3602	VLQ0163J390	COIL 39UH	1		R3282	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		1 FOR VEP83357A
L3603	VLQ0319K101	COIL 100UH	1		R3285	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	1
L3604	VLQ0426J820	COIL 82UH	1		R3286	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	
L3605	VLQ0426J680	COIL 68UH	1		R3287	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	-	
L3607	VL00319K101	COIL 100UH	. !		R3288	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	-	
L3608	VL00426J820	COIL 82UH	1		R3291	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K		
L3609	VLQ0426J680	COIL 68UH	1		R3292	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K	+	1
L3611,12	VL00426J470	COIL 47UH	2	1	R3303	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0		3 FOR VEP83357A
L3613	VL00426J180	COIL 18UH	ļ!		R330709	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1-	JI'UN VEF0333/A
			ļ					-	
L	_L			L	L	I	<u> </u>	1	<u></u>
					T 20				

Ref.No.	D. at No.	Part Name & Description)	Remarks	Ref. No.	Part No.	Part Name & Descripti	00	>	Remarks
		M. RESISTOR CH 1/16W 0	$\overline{}$	FOR VEP83357A	R3685	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3F		1	NCHALKS
		M. RESISTOR CH 1/16W 0		FOR VEP83357A	R3686	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3H	10.00	1	
	man an arms	M. RESISTOR CH 1/16W 1K	1		R3687,88	ERJ3GEY0R00	M. RESISTOR CH 1/16W		2	FOR VEP83357A
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83357A	R3690	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1	1	1	
R3330	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83357A	R3695	ERJ6GEYG821	M. RESISTOR CH 1/10W 820		1	
R3332,33		M. RESISTOR CH 1/16W 0	2	FOR VEP83357A	R3696,97	ERJ3RBD132	M. RESISTOR CH 1/16W 1.3		2	
		M. RESISTOR CH 1/16W 10K	1	W. W. P. P. PROPERTY AND P. W. P.	R3701	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2	- 1	1	
R3336	·····	M. RESISTOR CH 1/16W 0	*****	FOR VEP83357A	R3703	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220		1	FOR VERGOSETA
R3370		M. RESISTOR CH 1/16W 0	. !	FOR VEP83357A	R3706-08	ERJ3GEY0R00	M. RESISTOR CH 1/16W	- 1	3	FOR VEP83357A
	EXB24V151J ERJ3GEY0R00	COMBI.R-R 150 M.RESISTOR CH 1/16W 0	8	FOR VEP83357A	R3801 R3802	ERJ3GEYJ562 ERJ3GEYJ183	M. RESISTOR CH 1/16W 5.6I M. RESISTOR CH 1/16W 18I		1	
R3409 R3410	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	1 OT 1 D 03337X	R3806,07	ERJ3RBD102	M. RESISTOR CH 1/16W 1		2	
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	, i na nakati kanin i	R3808	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2		1	
		M. RESISTOR CH 1/16W 15K	1		R3810	ERJ3GEYJ391	M. RESISTOR CH 1/16W 39		1	***************************************
R3413	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	and the second of the second of the second of	R3812	ERJ3RBD471	M. RESISTOR CH 1/16W 47		1	
R3414-16	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	3		R3813	ERJ3GEYJ470	M. RESISTOR CH 1/16W 4	7	1	
R3417	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1		R3814	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8	(1	
R3418		M. RESISTOR CH 1/16W 0	. 1	FOR VEP83357A	R3815	ERJ3GEYJ470	M. RESISTOR CH 1/16W 4		1	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2		R3816	ERJ3GEYJ330	M. RESISTOR CH 1/16W 3		1	The state of the s
R3430	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	FAR VERAGETA	R3817	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2		1	
R3601	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 2.2K		FOR VEP83357A	R3819 R3820	ERJ3RED680	M. RESISTOR CH 1/16W 6 M. RESISTOR CH 1/16W 1			
R3603	ERJ3GEYJ222 ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K M. RESISTOR CH 1/16W 2.2K	1	as compression and the compression of the compressi	R3821	ERJ3GEYG102 ERJ3GEYJ391	M. RESISTOR CH 1/16W 39		1	
R3606	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R3822	ERJ3GEYJ681	M. RESISTOR CH 1/16W 68		1	
R3607	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	maked to a china se distance of the control of the	R3823	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8	-	i	The state of the s
R3608	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R3825	ERJ3RED680	M. RESISTOR CH 1/16W 6		1	***************************************
R3609	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3827	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10	(_1	
R3610	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R3828	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220	<	1	
R3611	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3829	ERJ3RBD912	M. RESISTOR CH 1/16W 9.1		_ 1	
R3612	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	***************************************	R3830	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2		1	
R3614,15	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R3833, 34	ERJ3RBD102	M. RESISTOR CH 1/16W 1		2	
R3616	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K M. RESISTOR CH 1/16W 0	1	FOR VEP83357A	R3835 R3836	ERJ3RBD561 VRT014116250	M. RESISTOR CH 1/16W 56 THERMISTOR	,	1	
R3619 R3620	ERJ3GEY0R00 VRT014116250	M. RESISTOR CH 1/16W 0 THERMISTOR	1	FUN VEROSSS/A	R3837	ERJ3RBD101	M. RESISTOR CH 1/16W 10		-	
R3622, 23	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	FOR VEP83357A	R3838	ERJ3GEYJ181	M. RESISTOR CH 1/16W 18		1	many care a real man management continues are the
R3624	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R3839	ERJ3GEY0R00		0	1	FOR VEP83357A
R3625	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R3840	ERJ3RBD561	M. RESISTOR CH 1/16W 56	0	1	
R3626	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R3841	ERJ3RED680	M. RESISTOR CH 1/16W 6	В	1	
R3627	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R3902	ERJ3GEY0R00)		FOR VEP83357A
R3628, 29	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	2		R3907,08	ERJ3GEY0R00)	2	FOR VEP83357A
R3631	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83357A	R3909	ERJ3GEYJ221	M. RESISTOR CH 1/16W 22		1	
R3632	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1		R3910	ERJ3RBD111	M. RESISTOR CH 1/16W 11)		THE PROOF IS NOT THE REST OF THE PROOF OF TH
R3633, 34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K M.RESISTOR CH 1/16W 1.5K	2		R3911 R3917	ERJ3GEY0R00 ERJ3GEY0R00)	1	FOR VEP83357A
R3635, 36 R3637	ERJ3GEYG152 ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1		R3918-21	ERJ3GEYG102	M. RESISTOR CH 1/16W 1			FOR VEP86286A
R3638	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	i		R3926-33	EXB24V151J	COMBI.R-R 15		8	J
R3639, 40	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	FOR VEP83357A	R3935-42	EXB24V151J	COMBI.R-R 15)	8	
R3641	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1		R3946,47	ERJ3GEY0R00	M. RESISTOR CH 1/16W)	2	FOR VEP83357A
R3642	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83357A	AND PROPERTY OF THE PROPERTY O	ERJ3GEYJ151	M. RESISTOR CH 1/16W 15)	. 2	
R3645	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1			ERJ3GEY0R00)		FOR VEP83357A
R3646, 47	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2		R3954	ERJ3GEY0R00)		FOR VER83357A
R3648, 49	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2		R3996	ERJ3GEY0R00)		FOR VEP83357A
R3650	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	-		R6301 R6302	ERJ3GEYJ103 ERJ3GEYJ101	M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 10			FOR VEP86286A FOR VEP86286A
R3651 R3652, 53	ERJ3GEYJ223 ERJ3GEY0R00	M. RESISTOR CH 1/16W 22K M. RESISTOR CH 1/16W 0	-	FOR VEP83357A	R6302	ERJ3GEYG102	M. RESISTOR CH 1/16W 1		****	FOR VEP86286A
R3654	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R6304	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10	******	********	FOR VEP86286A
R3655	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	FOR VEP83357A	R6308	ERJ3GEY0R00)	*******	FOR VEP86286A
R3656	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1		R6311, 12	ERJ3GEY0R00	M. RESISTOR CH 1/16W)	2	FOR VEP86286A
R3658	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	AND AND THE PROPERTY CANDER CONTRACTOR OF THE PROPERTY CONTRACTOR OF THE PR	R6315	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10			FOR VEP86286A
R3660	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R6316	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100			FOR VEP86286A
R3661	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	1		R6317, 18	ERJ3GEY0R00	M. RESISTOR CH 1/16W		********	FOR VEP86286A
R3663	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	and analysis and the company of the	R6319	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10			FOR VEP86286A
R3665	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1		R6320-22	ERJ3GEY0R00	M. RESISTOR CH 1/16W			FOR VEP86286A
R3666	ERJ3RBD471	M. RESISTOR CH 1/16W 470 M. RESISTOR CH 1/16W 0	-	FOR VEP83357A	R6324 R6326, 27	ERJ3GEYG102 ERJ3GEYJ101	M. RESISTOR CH 1/16W 10	ŧ	-	FOR VEP86286A FOR VEP86286A
R3667 R3668, 69	ERJ3GEY0R00 ERJ3RBD241	M. RESISTOR CH 1/16W 240	2	1 OH TEF 0333/A	R6331	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100			FOR VEP86286A
R3668, 69	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6333	ERJ3GEYJ104	M. RESISTOR CH 1/16W 1000			FOR VEP86286A
R3675, 76	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	an analog to the contract of t	R6337, 38	ERJ3GEYG102	M. RESISTOR CH 1/16W 11	1		FOR VEP86286A
R3677	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1		R6339, 40	ERJ3GEY0R00	M. RESISTOR CH 1/16W			FOR VEP86286A
R3678, 79	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	2	a consider a construction of the construction	R6341, 42	ERJ3GEYG102	M. RESISTOR CH 1/16W 1			FOR VEP86286A
R3680	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1		R6343-45	ERJ3GEY0R00	M. RESISTOR CH 1/16W		3	FOR VEP86286A
R3681	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1	1. 1	R6348, 49	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	- 1		FOR VEP86286A
R3682	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1			ERJ3GEYJ104	M. RESISTOR CH 1/16W 100H			FOR VEP86286A
R3683	ERJ3RBD121	M. RESISTOR CH 1/16W 120	1		R6355,56	ERJ3GEYG102	M. RESISTOR CH 1/16W	- 1		FOR VEP86286A
R3684	ERJ3RBD221	M. RESISTOR CH 1/16W 220	1		R6358,59	ERJ3GEYG102	M. RESISTOR CH 1/16W 1		2	FOR VEP86286A
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Ref.No.		Part Name & DescriptionPc		Ref.No.	Part No.	Part Name & Description	re:	s Remarks
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		property and the course of the	7 FOR VEP86286A					TO COMPANY AND A CONTRACT OF THE CONTRACT OF T
			FOR VEP86286A PFOR VEP86286A				-	
R6383	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	FOR VEP86286A					
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	m man m m m m m m m m m m m m m m m m m		FOR VEP86286A			and the state of t	-	The Control of the Co
			FOR VEP86286A				† .	
R6388	market day you have been been been been been been been be		FOR VEP86286A		The tender of the tender of		Ţ	A PROPERTY OF THE CONTRACT OF
			FOR VEP86286A				┼	
	AN ADDRESS A DESIGNATION OF THE PARTY OF THE	MATERIAL PROPERTY AND A STREET OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE P	FOR VEP86286A			The second secon	╁	
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R6400	***************************************		FOR VEP86286A				╁	
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R6403			FOR VEP86286A				1	
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R6439 R6440, 41	***************************************		FOR VEP86286A 2 FOR VEP86286A				+	
CONTRACT OF PERSONS ASSESSMENT AND ADDRESS.		ALC: 100 ACC 1	POR VEP86286A	STANDON THE SHAPE AND STANDON SHAPE TO SHAPE	********************************		\vdash	
SW1 SW6302	VSS0342 VSS0367-04B		FOR VEP86286A				-	
SW6303	VSS0342		FOR VEP86286A				╁	
TG3001 TG3601	EYF6CU EYF6CU	TEST POINT					-	
TG3901	EYF6CU	TEST POINT					╁	
TG6301	EYF6CU	TEST POINT		************************				
TD2001 04	EVECU	TEST POINT		Market \$4.44 \$ 15.65 p. 15.66 p. 16.60 p. 17.17 p. 17.1			1	
TP3201-04 TP3301	EYF6CU	TEST POINT					-	
TP3307-10	***************************************	TEST POINT	1					
TP3401-03		TEST POINT 3				<u> </u>	_	
TP3801-04	ETFOCU	TEST POINT					├-	
VC3601	VCV0047	TRIMMER						
VD2001	EVANT ICAGODIA	V DECISTOR 10V		***************************************			-	
VR3201 VR3602		V. RESISTOR 10K V. RESISTOR 5K	The second residence and the second s		***************************************		-	
VR3603	EVM7JGA00B13						<u> </u>	
	EVM7JGA00B22							
VR3605 VR3607	EVM7JGA00B13 EVM7JGA00B14						 	
VR3608	EVM7JGA00B53	V.RESISTOR 5K 1						
		V. RESISTOR 2K 2						
VR3801 VR3802.03		V. RESISTOR 2K 1 V. RESISTOR 1K 2					-	
VR3804		V. RESISTOR 2K 1						
V2001	VCVCZZ	COVOTAL OCCULATOR			***************************************			
X3201 X6301	VSX0677 VSX0833	CRYSTAL OSCILLATOR 1 CRYSTAL OSCILLATOR 1	FOR VEP86286A			. Now , do 0 . 1 . If the set half production which is subject to the set of	-	AN AND THE RESIDENCE TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE
X6302	VSX0974		FOR VEP86286A					
		MICOTILIANEOUS			Proper state Walle Sale . 5 p 10 .	**************************************		ACCOUNTS OF THE CONTRACTOR AND A CONTRACTOR OF THE CONTRACTOR OF T
		MISCELLANEOUS		******************************	*************************************			
	VMS4913	PIN 4	THE RESERVE TO THE PARTY AND ADDRESS TO THE PARTY THE PA			The state of the s		and the control of th
	XYN3+K5	SCREW 4	0 = 100 00 0 1000 100 100 100 000 000 00					***************************************
-						THE RESERVE OF STREET, AND STR	-	NATION WAS IN A COURSE OF THE WAS A STREET, AND THE STREET, AND
■ E29	VEP86280A	DVC PRO TERMINAL P.C.BOARD 1	(RTL)					
E23	1LI 00200A	DIO THE HAVE E. C. DOWN	(1116)					
	. ,						7	
P1	VJP3993 VJP1599T	CONNECTOR (MALE) 1 CONNECTOR (MALE) 1						
P2	A0L10881	COMMECTOR (MALE)						*** **** *** ** ** ***** ****** **** ****
			<u> </u>					

AJ-YAD210P

PACKING PARTS ASSEMBLY



PACKING PARTS ASSEMBLY

Ref. No.	Part No.	Part Name & DescriptionPo	cs	Remarks	Ref. No.	Part No.	Part	Name	& Desc	ription	1Pc	s Remarks
 1	VGF0747	CONNECTOR CAP	1	and the second control of the second control		m. '''		* *******		randa santapanta a	1	THE STREET CHICLESTON OF THE PROPERTY WAS ARRESTED FOR THE PROPERTY OF THE PRO
2	VJF1344	CONNECTOR HOLDER (1)	1	1	1						-	
3	VJF1345	CONNECTOR HOLDER (2)	1	***************************************	***************************************		***************************************	**************		namena o o o o o o o o o o o o o o o o o o o		
4	VMS4913	P.C.B. POST	4	1	1 1						-	men a maintain and a maintain and a maintain and a maintain and a maintain and a maintain and a maintain and a
5	VPF0182	POLYETHYLENE BAG	1		h	*****************************			*	-1412- 5 20/00/2004	-	**************************************
6	VPF0359	CONDUCTIVE BAG	1	THE P. LEWIS CO. LANS CO. P. LANSING SEC. S. P. LEWIS CO. PRINCIPLE.		***************************************	********		*** * *** *******			. The standard of the standard
7	VPF0508	POLYETHYLENE BAG	1	· 1							+	
3	VPG6296	PACKING CASE	1	***************************************			***********	Pl			+-	
	VPN2445	CUSHION	1]						1	
0	V0T7583	OPERATING INSTRUCTIONS	1					**** *******			 	
1	VFG0469A	FLOPPY DISK	1		1		***************************************				1	
***************************************					1 1		-	•			1 -	the state of the second
				and the second s	***************************************		***************************************				-	
			1		Ĺ					•	1	
2	XYN2+J6	SCREW	4		I			***************************************		***************************************		
3	XYN3+K5	SCREW	8								-	
				1	1							to the state of the second resident resident

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	l'cs	Remarks	Ref. No. R6341,42		Part Name & Descrip M.RESISTOR CH 1/16W	1K	2	Remarks	-
			afrangrain	bulgarandiffing who came a construction or an arrangement of							· gandin
II V	/EP86279A	DVCPRO I/F P.C.BOARD	1	(RTL)			M. RESISTOR CH 1/16W	0	3	4 4 4	
					R6347-49	ERJ3GEYG471	M. RESISTOR CH 1/16W	470	3		
		Annual Control of the		***************************************	R6350-53	ERJ3GEYJ104	M. RESISTOR CH 1/16W 1	00K	4		
				(mer)				1K	3		
■ \	VEP86280A	DVCPRO CONNECTOR P.C.BOARD	1	(RTL)			M.RESISTOR CH 1/16W		. 4		
,	***************************************				R6358,59	ERJ3GEYJ102	M. RESISTOR CH 1/16W	1K	2	gr-127 tr 122000000 g - 1230000 th 1821 - 40 f 1821 1821	
		and the contract of the contra	1		R6360-62	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	3		
					R6363-66	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	4		
			-					. 1K	1	The state of the s	
			L.			to an emergetion come			1		
1					R6368-74	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	. 7		
				the contract of the contract o	R6375-80	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	6		
				AND THE PERSON NAMED IN TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY.			M. RESISTOR CH 1/16W 5	1K	2		
		L			- manifestation is manufacture - 14				-		
								10K.			
	VEP86279A	DVCPRO I/F P.C.BOARD	1	(RTL)	R6384	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5	. 1K	-1		
			1		R6385	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1		
				to the following the second section of the second section sect	R6386	africanamento communitario accommunicario		. 1K	1	a confessional service of the servic	**************
			,	The Commission of the Commissi		in in recommending the office distributions and			-		
C6301-36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	36		R6387	the same specific representations and the		10K	- 1		
	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1		R6388	ERJ3GEYJ512	M. RESISTOR CH 1/16W 5	5.1K	1	Participation of the Control of the	-t
	***************************************	C. CAPACITOR CH 25V 0.1U	1		R6389	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1		
	ECUX1E104ZFV						A 14 COMPANY OF THE PROPERTY OF THE PARK OF THE PARK	00K	1		
C6339	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1		R6390	ERJ3GEYJ104			ļ¦	* M	
C6340	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		R6391	ERJ3GEYJ101		100	1	and construction and construction with the manufacture of the manufact	
C6341	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U	1		R6392	ERJ6RBD622	M. RESISTOR CH 1/10W 6	5.2K	1		
			1			ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	3		
C6342	ECUX1H120JCV		+				M. RESISTOR CH 1/16W	56	1	***************************************	
C6344-52	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	9		R6396-99	ERJ3GEYJ560		en .	-		
C6360	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	4.	R6400	ERJ3GEYJ512	M. RESISTOR CH 1/16W 5). 1K	1		
***************************************	ECEVOJV1010	E. CAPACITOR CH6. 3V 100U	1	· · · · · · · · · · · · · · · · · · ·	R6401,02	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	2		
C6362	***************************************		-	anne de la company de la compa	R6403	ERJ3GEYJ512	M. RESISTOR CH 1/16W	5. 1K	1	THE RESERVE OF THE PARTY OF THE	
C6364	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	+-					AM . M A . MM	1 :	1	
C6366, 67	ECEVOJV220Q	E. CAPACITOR CH6. 3V 22U	1 2		R6404-07	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1-4	***************************************	
***************************************	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		R6408-10	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	3		
00303-73			-		R6420-25	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	6		
				***************************************	R6434-36	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	3		
D630103	LN1251CAL	DIODE		A STATE OF THE PARTY OF THE PAR	en succession contract and description of the contract of the		Commission of the Commission o				
					R6439	ERJ3GEY0R00	M. RESISTOR CH 1/16W		1		
FL6301,02	VI F1427	FILTER	1 2		R6440	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1		
PL0301, 02	140 1427		+	***************************************	A 144 TO 101 THE WEST AND ADDRESS OF THE PARTY.			*************************	1		
					CWC001	1/0D1006	SWITCH		l i	1	
1C6301	M31010M6104H	IC .			SW6301	VSP1005					
IC6302	MAX3223CAP	IC	1		SW6302	VSS0367-04B	SWITCH		1		
1C6303	S80727ANDQ	IC .		· · · · · · · · · · · · · · · · · · ·	SW6303	VSS0342	SWITCH		1		
			+ 3								
106304,05	TC7S14F	IC .			700001	m.maal	TECT DOLLIT		١.,	***************************************	*****
106306	TVHC244FT	ic			TG6301	EYF6CU	TEST POINT		!		
IC6307	TVHC240FT	Tic	1		TG6303	EYF6CU	TEST POINT		1		NO. 10
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1C6308				A Company of the Comp		mention to the state of the sta	The state of the s				
IC6309	MBLV80B12PF	10	-		770000 07		TECT DOLLAT		١.		
106310,11	KM68V1CLT7L	IC	1 3		TP6302-07		TEST POINT		- 0		
IC6312	TC7SH04FU	IC			TP6315-19	EYF6CU .	TEST POINT		5		
		IC	-		TP6322-25	EYF6CU	TEST POINT		4		
IC6313	TSB13LV11PBW				TP6351	EYF6CU	TEST POINT		1		
IC6314	TC7SH04FU	IC			COLUMN TO THE PERSON OF THE PE				-		
IC6315	MB81V4260S7	IC			TP6353	EYF6CU	TEST POINT		1!	4	
IC6317	UPD65849G032	lic	1	1	TP6356,57	EYF6CU	TEST POINT		2		
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106318	TVHC244FT	1C	4.		Ve201	Vevoess	CRYSTAL OSCILLATOR		1 ;	1	
106319, 20	TVHC245FT	1C			X6301	VSX0833			 		
IC6321	TVHC163FT	IC			X6302	VSX0974	CRYSTAL OSCILLATOR		<u> </u>		
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L6301-03	VLP0119	COIL				-	<u> </u>		 		
L6305,06	VLQ0319K470	COIL 47UH		2		1	1			ļ	
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P6301,02						VEDRESONA	DVCPRO CONNECTOR P.C.	BOARD	1	(RTL)	
P6305	VJS3806E140	CONNECTOR (FEMALE)		4		VEP86280A	Promo connecton F.C.	JUNIO .	1 '		
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QR6301	UN5214	TRANSISTOR	T		1	1				1	
410301	· · ·		1		P1	VJP3993	CONNECTOR (MALE)		1		
			+-			VJP1599T	CONNECTOR (MALE)		1-1		
R6301	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K			P2	AOL 13221	CONTINUE (MALE)				
R6302	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100									
R6303	ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K	1	1	1						
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R6305	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100		4		1				1	
R6308	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0					,		+ .		
R6311,12	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		2		L			1.		
**************************************		M. RESISTOR CH 1/16W 100K			1	T	T		1		
R6316	ERJ3GEYJ104	THE REAL PROPERTY OF A SECOND	-		1	1	1			1.	
R6317,18	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0						**********			
R6320-22	***************************************	M. RESISTOR CH 1/16W 0		3					1	1 .	
		M. RESISTOR CH 1/16W 1K		1	1	1				1	
	ERJ3GEYJ102	the second commences and the second of the second				 			†	gramme in an or commenced to the first the second	
R6324	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100							ļ	ļ · · · ·	** * * **
R6324 R6326, 27	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K							1	1	
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R6326,27 R6331 R6333	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	-			T			1		
R6326,27	ERJ3GEYJ104	M. RESISTOR CH 1/16W 1K	1						ľ	A CONTRACTOR OF THE CONTRACTOR	
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R6326, 27 R6331 R6333	ERJ3GEYJ104 ERJ3GEYJ102	M. RESISTOR CH 1/16W 1K		2							

Technical Bullet

Supplement to the Service Manual

Broadcast Product

Subject: Addition of Screw Adhesive

Please use this supplement together with the Service Manual as follows:

Model No.

Bulletin No.

Order No.

Effective from

AJ-D200E

65

VSDD9708M604

19TKA0001

AJ-D215HE --

VSD9904M007

19TKA0001

Frame Assembly (1) Frame Assembly (2)

U19921# 1030051 V24892# 2023M2

Symptom: The screws on the Frame Assembly (1) and (2) sections may be loosened.

Remedy: Screw adhesive is applied to the screws on the Frame Assembly (1) and (2) sections.

- 1. Regarding the locations of the adhesive application to the screws on the Frame Assembly (1) and (2) sections, refer to the next page.
- 2. Specification of screw adhesive application
 - * Approx. 0.02g of the adhesive must be applied to the surface of the thread from the tip to the half of the thread section.

Note

After applying the adhesive, check that it covers the visible area on the thread.



Apply adhesive to the half of the thread section.

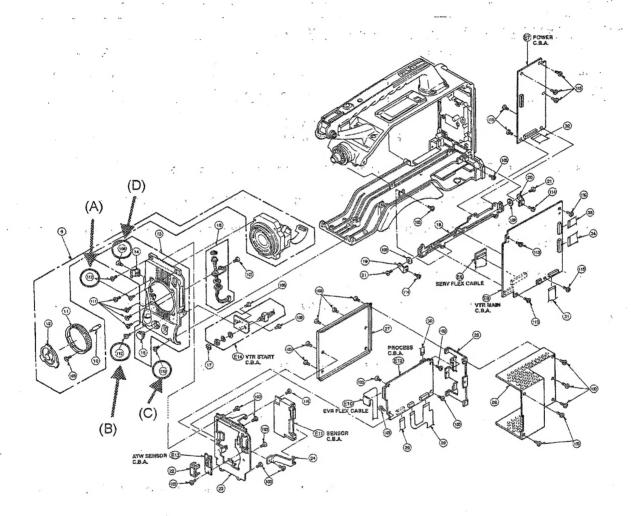
TM4211TM4226TM4229:3

Adhesive Application Positions

- 1) Frame Assembly (1) ... 5 positions 2) Frame Assembly (2) ... 23 positions

Reference Exploded Views of Adhesive Application Locations * As per the Exploded Views of Service Manual

1). Frame Assembly (1) (Application locations) À (X2), B (X1), C (X1), D (X1)



2). Frame Assembly (2)
(Application locations)
A (X4), B (X2), C (X2), D (X2), E (X2), F (X2), G (X1), H (X1), I (X1), J (X2), K (X2), L(X2)

